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PRINCIPAL CONTENTS.

| Commerce of the Lakes |
|--|
| Pneumatic Pile Driving |
| Topographical Survey of the Lakes |
| Census of 1850 |
| Virginia and Tennessee Railroad |
| Mobile and Ohio Railroad |
| Henderson and Nashville Railroad |
| Ohio and Pennsylvania Railroad |
| Central Military Tract Railroad |
| Illinois Central Railroad |
| Stock and Money Market |
| Waynesboro' Road |
| Philadelphia, Germantown and Norristown R. 7 |
| Hannibal and St. Josephs Railroad |
| Railroads in the Southern States |
| Statistics of Manufactures |
| Abstract of the President's Message |
| Ogdensburg Railroad |
| Atlantic and Mississippi Railroad |
| Ohio and Mississippi Bailroad |
| Hudson River Railroad |
| Railroads in Ohio |
| New Castle and Richmond Railroad 7 |

American Railroad Journal.

Saturday, December 13, 1851.

Relation of the Lakes to the Internal Commeres of the U.S.

We believe that a rapid change is going on in lakes, and the facilities they afford to the easy transmission of merchandise from one portion of the country to the other. Up to a comparatively recent period, the outlet of the western States was by the Mississippi river. The lakes now possess one to the Atlantic, in the Erie canal, much superior, as far as directness, safety and despatch are concerned, to any of the western rivers. Trade is consequently attracted to the former, and this trade is rapidly building up cities upon their borders .-These cities, as they grow up, will constantly enlarge the sphere of their influence, and the area of country dependent upon them. They will become ported into, the western States. All the canals, and

unrivalled position at the foot of Lake Michigan, their treasures. in being surrounded by an exceedingly fertile country, and in being situated in the vicinity of vast coal fields, and in being the future centre of numerous and important lines of railroad. It may not other western city. For similar reasons, Cleveland, Toledo, Sandusky and Detroit, must become important cities, each of which will command their

the direction of the internal commerce of the country, owing to the attractive influence of the great lakes, and the facilities they afford to the easy transthat possesses the cheapest and best route to them must in the end distance all its competitors.

It is a remarkable fact, that all our great eastern tance that the cities named reach Lake Erie. On the score of distance, the position of our great towns are pretty nearly equal, and if they can preserve a similar equality in the routes by which they reach the western waters, all may expect to command a portion of the trade that falls upon them. the great receiving and distributing points of the Boston and New York have already opened their produce and merchandise exported from, and im-lines. We believe that it is vastly important Philadelphia and Baltimore should follow their the more important lines of railroad in that section example. Philadelphia is now endeavoring to seof the country, are based upon the lakes, through cure her connection through the Sunbury and Eric

PUBLISHED BY J. H. SCHULTZ & Co., 136 NASSAU ST. | outlet for the produce of the regions they traverse. | Williamsport, this line will be common to both For the reasons given, we shall find, for the next from that place. By constructing a road from ten years, that the most rapidly growing towns in Wheeling to Wellsville, Baltimore would have, the west will be those situated upon the lakes. We in connection with the Cleveland and Wellsville believe that Chicago is destined to be the second, road, an independent line to Cleveland. Upon the if not the largest city in the United States, west of lakes are to be the great store houses of the west, the Allegheny Mountains. It possesses all the ele- and the best route from them to the Atlantic coast, ments necessary to constitute a great city, in its will constitute the key that will unlock the door to

Pneumatic Pile Driving.

As we believe the process of sinking the formations of bridges and piers upon the above principle to be a great improvement over the coffer dam, or outstrip Cincinnati, but it cortainly will every the ordinary mode of pile driving, we place before our readers a detailed statement of this process, as practically tested in England. We believe it could be used with great economy, and would be the share of trade. Cincinnati, Louisville and St. means of securing much more permanent struc-Louis, must continue to grow rapidly, but we do tures than those built upon any other method:-

Louis, must continue to grow rapidly, but we do not believe that they will maintain their present relative positions compared with the lake cities. The latter must, to a great extent, become the importing and exporting ports for the former, and derive all the advantages resulting from such a relation.

The lakes, therefore, must become the great theatre of the commerce of the west. Our Atlantic cities, that are contending for this trade, should bear in mind, that they must reach it through these great water courses; and their ability to compete for this trade, will depend upon the excellence of sure—amounting to nearly a ton upon every square foot, is sufficient to crush almost everything be-neath it; but the pressure of fluids is equal in all cities are about equi-distant from the lakes. Philadelphia and Baltimore are, in fact, nearer to Lake Erie than New York. Boston reaches the navigable waters of Lake On; in about the same dispersion of the with appliances adapted to the purpose, to cause the natural and inevitable results to become pal-

pably apparent.
Of these facts the inventor of the present process
has availed himself, to work out effects both novel
and startling in themselves and important and valuable to the community. This process is availa-ble for the formation of shafts for mines and wells; ble for the formation of shafts for mines and wells; but the purpose to which it is at present chiefly applied, is the sinking of piles to form foundations for the construction of harbors, docks, railroad bridges, lighthouses, beacons, batteries, banks for the reclamation of waste land from the sea, etc.

The manner in which this operation has until lately bear performed in this contact which the sea of the sea of

what is found the cheapest and most convenient road. As Baltimore will connect with this road at lately been performed is this:—the piles are driven

into the earth by means of a weight, which is the solid pile inserted into it, whenever it may be like pieces of wood. These vat-like tubes may be wound up to the top of a frame, and then allowed desirable. to fall, some dozen feet or more, upon the pile beneath. This procedure is at times extremely tedious, laborious, and expensive, and in some cases wholly ineffectual. Solid particles under pressure have a tendency to form natural arches; anything forced among them is driven between such arches, and hence its descent becomes extremely difficult, not withstanding its being wedge-shaped or pointed in the manner customary. Such, indeed, is the resistance offered, that, on the Goodwin Sand, a steel bar could be forced only 8 feet down with a sledge-hammer; and Capt. Bullock, R. N., found that a pointed iron rod of 3 inches diameter, when sunk 13 feet in the sand, required forty-six blows of a monkey weighing 1 cwt., with 10 feet fall, to drive it one inch deeper! Engineers, in fact, ad-mit that hitherto piles have frequently been driven by a cross-cut saw—that is, the workmen have found it easier to cut them off at the top than to accomplish the physical impossibilities expected of them when provided only with the appliances hitherto employed.

By the new process, however, the resistance spoken of is overcome or utterly annihilated, and piles are sunk to any depth required, by other, in-stantaneous, and far more powerful agency than could result from the application of any force that we possess. Such operations are usually carried on in sand, shingle clay, etc., forming the bed of an arm of the sea, or of a river, or in swampy ground, and, in general, it is necessary, in the new process, that there shall be some small depth of water over the stat selected; and this, if not present, may be readily supplied.

The form of pile used is a hollow cylinder or

tube, of any convenient shape, diameter and length, and having each of its ends open. This tube is and having each of its enus open. This this re-placed perpendicularly over the spot which it is re-quired to penetrate, the lower end passing through the water, and resting on the surface beneath. To the upper end, is fitted a moveable cover, having an aperture to admit the suction pipe of an exhaust-ing air pump; and, such pipe being inserted, and the air pump with which it communicates, set in action, the effect becomes immediately obvious, the tube beginning instantly to sink, and rapidly bury-ing itself, the material through which it passes rushing in to fill up the vacuum caused by the partial withdrawal of the air, and passing up the tube and through the suction-pipe of the air pump, into the receiver provided for it, leaving the tube ready for the reception of whatever material may be thought proper to fill up and render it a solid

The negative, though fundamental cause of this ascent of the solid material, is certainly the withdrawal of the air trom the interior of the tube; but the immediate one is the enormous pressure of the air on the comparatively large external surface around the tube, which pressure of course always exists in what may be called a latent state, and only becomes sensible or apparent to us on the removal of it from the enclosed surface in the manner described, and the destruction of the natural equilibrium thereby effected.

The causes of the descent of the tube are two the weight or pressure of the air incumbent on the top or cover, combined with the weight of the tube top or cover, combined with the weight of the state itself; and the undermining process in operation at its lower edges, from the constant giving way of the solid particles in contact with them, as they rush into the vacant interior, in consequence of the pressure on the external surface above; which the pressure on the external surface above; which the pressure is thus shown to be the most important. sure is thus shown to be the most important

pressure is thus shown to be the most important and effective of the causes in operation.

The tubes, thus sunk, may be rendered solid throughout, by filling them with a concrete composed of a mixture of shingle, or the like, with any of the cheap cements adapted to the purpose—of which there are several kinds. Solid piles, like those hitherto employed, are sunk in a precisely similar manner; the lower end of each of them being fitted with a hollow casing, a foot or less in depth, called a "shoe," and having in its top an aperture for the insertion of the suction-pipe, which descends with it, and is afterwards detached and drawn up. By means of a contrivance termed a jacket, a rock lying below sand or shingle may be in diameter have been sunk on these sands, to the penetrated with implements already known, and depth of 60 feet.

The depth attainable by this process may be considered, for all practical purposes, unlimited: water may be removed by it to a depth of 30 feet, and solid material* to one very much greater. The rate at which the tubular pile, or caisson, descends, is dependent on the rapidity of the extract tion of the atmospheric air from its interior. With a good pair of air pumps, of proportionate size and well worked, the descent is surprising, but with the assistance of a *Voider* or large vessel previously exhausted of its air, it is almost instantaneous, particularly when shingle beach and boulders form the material to be acted on. The weight the tubes are capable of sustaining when sunk and filled up, is enormous. Nineteen, each one foot in diameter and 16 feet in length, sunk by this process in sand eighty feet in depth, support a pier of a stone via-duct passing over an arm of the sea in Anglesey, and sustain a weight of 600 tons without sicking a hair's breadth.† The Trinity Board have purchased a license for the use of the process, and are constantly employing it. Several beacons have thus been placed on sand-banks and in other dangerous situations; a "the 2½ feet in diameter, has been sunk 23 feet; into the Goodwin Sand + where been sunk 33 feet into the Goodwin Sand, ‡ as already stated, Admiral Beaufort could force a steel bar only 8 feet down; and there seems every reason to believe that by means of this invention those frightful shifting sands might now be fixed and a harbor formed, at a comparatively inconsidable cost.

The material of which the tubing is composed is in general cast iron, but any other, when more suitable, may be employed; such, for instance, as the Artificial Granite patented by Mr. Buckwell, and consisting of a silicious cement, enveloping a mass of shingle, flint, &c., capable of being moulded into tubular cylinders of any form or capacity, and which he states are to be obtained at about two-thirds the cost of brick. Tubes of cast iron will not be injuriously affected by the action of salt water; the constituents of which, entering into chemical combination with the iron, dissolve only a sufficient portion of it to form the material in contact with the metal into a concrete of the most enduring kind. It is common to find the bolts and other iron-work of vessels lost upon the coast, amidst a hard mass of conglomerate thus created and the inventor of the present process is in pos-session of part of such a concretion, of which a cast-iron pitch-kettle formed the nucleus. clear, therefore, that sand, ctc., into which such tubes had been sunk, would rapidly be converted into conglomerate rock; but this effect may be prevented by defending the metal from the action of the water by means of a coating of varnish or pig-

ment adapted to the purpose.

Where the tube is required to be of large dimen--as in the case of an insular detached erection of any kind, it may be constructed—after the manner of a bottomless vat, of a number of stave-

* It is found, in practice, that not only will sand shingle, mud, bog, and clay, be carried up the pile, but even large stones are carried in suspension, so that every kind of soil can be mastered, except rock, and there it is not wanted, because there is a solid foundation.—Civil Engineer's Journal.

The whole of the Artesian Well, now proposed

† From a communication recently received from Frank Forster, Esq., Superintending Engineer, it appears that this foundation, placed in a situation where the wash is very great—owing to the force of the current and the movable nature of the sand, has now stood for nearly two years, and is found to answer perfectly. Mr. Forster adds,

"Such is my opinion as to the efficacy of your hollow piles on the large scale, that I intend to sink the first shaft I have through quicksand requiring hollow iron cylinders, by means of your

of a large diameter, and the upper portions of them so fitted up as to become secure habitations for persons occupied in the cultivation of reclaimed land, or engaged in fishing, pilotage, etc., or the staves may be merely temporarily pinned together, and the tube, so constructed, having been doated to the spot required, and sunk to the proper depth, a rock of concrete—cement and shingle, into which masts or wrought iron bars may be inserted, may be formed in it, and the staves loosened and withdrawn, leaving behind them a column of perfectly solid rock, and ready to be amplied to the forfectly solid rock, and ready to be applied to the formation of similar structures ad infinitum.

A succession of tubes may be added longitudinally

to the first, if necessary, by means of screw, flange, cement, or other joints, so as to form a column of any length; the shape may be cylindrical, angular, conical, so as to cause them to fit each other laterally, and form a continuous line or wall; and their diameter may range from one-eighth of an

inch to 50 or 60 feet.

The expense and loss of time occasioned by the construction of coffer-dams may thus be avoided; and it is a striking characteristic of the process that while the descent of the piles, although so rapid, may be graduated to the greatest nicety, once thus sufficiently inserted, it becomes impossible to force them deeper by any amount of pressure that can be applied.

The Topographical Survey of the Lakes,

The topographical survey of the lakes.

The topographical survey of the lakes, the Detroit Free Press says, is now confined to the straits of Mackinac, and the work the past season has been conducted by Capt. J. N. Macomb, First Lieut. J. W. Gunnison, First Lieut. E. P. Scammond, and Second Lieut. W. F. Reynolds, of the corps of Topographical Engineers; Jacob Houghton, Jr., H. Gillman, and W. Hearding, of Michigan, and J. E. Potter, of Ohio, Civil Engineers and assistants. E. Potter, of Ohio, Civil Engineers and assistants. The general direction of the work has been in the hands of Col. Abert, Chief of the Topographical Bureau at Washington. The whole party numbers about seventy-five. This force has been divided, and a portion occupied on the mainland coast, the island having been principally sounded and nearly completed, so as to enable Capt. Macomb to form the charts. To give some idea of the elaborateness and accuracy of the survey, the small island of Bois Blanc, about four miles in circumference, has eight points under the main triangulaference, has eight points under the main triangulation, and in all these there are twenty-eight points. Among other important facts disclosed by this survey is, that about seventeen miles east north-east of Mackinack, among what is called the snows, (chemeaux,) there is a fine harbor, completely land-locked, and having at its entrance six or seven fathoms of water. The Free Press has a note from one of the party, correcting the opinion which has been entertained, that the waters in the vicinity of Saginaw Bay are of unfathomable depth. Soundings have been taken and bottom found at the depth of twenty-eight fathoms and at thirty-two fathoms. The soundings were taken at points forty-two and fifty miles from Thunder Bay lighthouse. The bottom is of sand, black and white specks. In the narrow part of St. Clair river bottom was found at the depth of seventeen fathoms. The same writer says:—There is no account of any accurate soundings to show that any point in the bottom of Lake Huron is as low as the surface of the ocean, altho it has frequently been stated to descend below that

Ship Canal at the Sault.

We are glad to note that a determined movement for the accomplishment of this very important work has been started in the right quarter. The Detr it Free Press says :-

"A survey or reconnoisance is now in progress at Sault Ste. Marie, of the proposed ship canal, by Wm. Wiley, Esq., of the Central railroad, who left here for that purpose some days since. Mr. Wiley's experience as a practical engineer will writey's experience as a practical engineer will doubtless be of essential service in the matter, and his report is expected to be incorporated into a me-morial to be laid before Congress at its approach-ing session, in behalf of this much needed improve-ment."

Census of 1850.

We lay before our readers the following interesting statistics compiled from the census of

Since the census of 1840, there have been added Since the census of 1840, there have been added to the territory of the republic, by annexation, conquest, and purchase, 635,988 square miles, and our title to regions covering 341,463 square miles, which before properly belonged to us, but was claimed and partially occupied by a foreign power, has been established by negotiation, and it has been brought within our acknowledged boundaries. By such means, the area of the United States has been extended during the past ten years from 2,055,168 to 3,221,595 square miles without including the great lakes which hie upon our northern border, or the lakes which lie upon our northern border, or the bays which indentate our Atlantic and Pacific shores: all which has come within the scope of the seventh census.

In the endeavor to ascertain the progress of our population since 1840, it will be proper to deduct from the aggregate number of inhabitants shown by the present census the population of Texas in 1840, and the number embraced within the limits of California, and the new territories at the time of their acquisition. From the best information which has come to hand, it is believed that Texas contained in 1840, 75,000 inhabitants, and that when California, New Mexico and Oregon came into our possession in 1846, they had a population of 97,000. It thus appears that we have received

by additions of territory since 1840 an accession of 172,000 to the number of our people.

Assuming the population of California to be 165,000 (which we do partly by estimate,) and omitting that of Utah, estimated at 15,000 the total number of inhabitants in the United States, was, on the 1st of June 1850, 23,246,301.

The absolute increase from 1st June, 1840, has been 6,176,848, and the actual increase per cent. is 36,18. But it has been shown that the probable amount of population acquired by additions of ter-ritory should be deducted in making a comparison between the results of the present and the last These deductions reduce the total popucensus. lation of the country as a basis of comparison, to 23,-074,301, and the increase to 6,004,848. The relative increase after this allowance, is found to be 35.17 per cent.

aggregate number of whites in 1850, was 19,619,366, exhibiting a gain upon the number of the same class in 1840, of 5,423,371, and a relative increase of 38.20 per cent. But excluding the 153,-000 free population supposed to have been acquired by the addition of territory since 1840, the gain is 5,270,371, and the increased per cent. 37.14. The number of slaves by the present census is3,198,298, which shows an increase of 711,085, equal to 28.58 per cent. It we deduct 19,000 for the probable slave population of Texas in 1840, the result of the comparison will be slightly different. The absolute increase will be 692,085, and the rate per ct. 27.83.

The number of free colored in 1850 was 428,637,

in 1840, 386,245. The increase of this class has been 42,392, or 10.95 per cent.

From 1830 to 1840 the increase of the whole po-

pulation was at the rate of 32.67 per cent. At the same rate of advancement, the absolute gain for the ten years last past would have been 5,578,333 or 426,515 less than it has been, without including the increase consequent upon additions to the territory.

The aggregate increase of population from all sources, shows a relative advance greater than that of any other decimal term, except that from the second to the third census, during which time the country received an accession of inhabitants by the purchase of Louisiana, considerably greater than one per cent. of the whole number. Rejecting from the census of 1810, 1.45 per ct. for the population of Louisiana, and from the census of 1850, 1 per cent. for that of Texas, California, &c., the result is in favor of the last ten years by about one-four-teenth of one per cent., the gain from 1800 to 1810 being 35.05 per cent., and from 1840 to 1850, 35.12 per cent. But without going behind the sum of the returns, it appears that the increase from the second to the third census was thirty-two hundredths of one per cent. greater than from the sixth to the

The relative progress of the several races and classes of the population is shown in the following the accession to our population from foreitabular statement.

Increase per cent. of each class of inhabitants in the United States for sixty years:—

| 1790 | 1800 | 1810 | 1820 | 1830 | 1840 |
|--------------------|-------|-------|-------|-------|-------|
| to | to | to | to | to | 10 |
| 1800. | 1810. | 1820. | 1830. | 1840. | 1850. |
| Whites 35.68 | 36.18 | 34.30 | 34.52 | 34.72 | 38.20 |
| Free colored.82.28 | 72.00 | 27.75 | 34.85 | 20.88 | 10.95 |
| Slaves27.96 | 33,40 | 29.57 | 30.75 | 23.81 | 28.58 |
| Total colored32.23 | 37.58 | 29.33 | 31.31 | 23.40 | 26.16 |
| Total popu- | | | | | |
| lation 35.09 | 36 50 | 33 35 | 33 92 | 32 67 | 36.18 |

The census had been taken previously to 1830 on the 1st day of August; the enumeration began that year on the first of June, two months earlier, so that the interval between the fourth and fifth census was two months less than ten years; which time allowed for, would bring the total increase up to the rate of 34.36 per cent. The tables given below show the increase from

1790 to 1850, without reference to intervening periods :-

Absolute Increase increase in per ct. in 1850. sixty yrs. sixty-yrs. 1790. Number of

..3,172,464 19,630,019 16,457,555 52,797 ed. 59,466 428,637 369,171 61,741 whites Free colored. 697,897 3,184,262 2,486,365 35,013 Slaves..... Total free colored and

757,363 3,612,899 2,855,536 377 slaves.... Total popu-

lation . . . 3,929,827 23,246,301 19,316,417 491,152

Sixty years since, the proportion between the whites and blacks, bond and free, was 4,2 to 1. In 1850, it was 5,26 to 1, and the ration in favor of the former race is increasing. Had the blacks in-creased as fast as the whites, during these sixty years, the number on the 1st of June would have been 4,657,239, so that, in comparison with the

whites, they have lost in this period 1,350,340.

This disparity is much more than accounted for by European emigration to the United States.

Dr. Chickering, in an essay upon Immigration, published at Boston, in 1848, distinguished for great elaborateness of research, estimates the gain of the white population, from this source at 3,922,-152. No reliable record was kept of the immigrants into the United States, until 1820, when, by the laws of March, 1819, the collectors were required to make quarterly returns of foreign pas-sengers arriving in their districts. For the first ten years the returns under the laws afford materials for only an approximation to a true state of the

tacts involved in this inquiry.

Dr. Chickering assumes, as a result of his investigations, that of the 6,431.088 inhabitants of the United States in 1820, 1,430,906 were foreigners arrived subsequent to 1790, or the descendants of such. According to Dr. Seybert, an earlier writer upon statistics, the number of foreign passengers from 1790 to 1810, was, as nearly as could be ascertained, 120,000; and from the estimates of Dr. Seybert, and other evidence, Hon. George Tucker, author of a valuable work on the census of 1840, supposed the number from 1810 to 1820 to have been 114,000. These estimates make, for the thirty years preceding 1820, 234,000.

If we reckon the census of immigrants at the average rate of the whole body of white population during these three decades, they and their descendants in 1820 would amount to about 360,000.

From 1820 to 1830 there arrived, according to the returns of the custom houses, 135,986 foreign passengers, and from 1830 to 1840, 579,370, making for the twenty years 715,356.

During this period a large number of emigrants from England, Scotland, and Ireland, came into the United States through Canada.

Dr. Chickering estimates the number of such from 1820 to 1830 at 67,998, and from 1830 to 1840 During the same time a considerable number are supposed to have landed at New York, with the purpose of pursuing their route to Canada, but it is probable that the number of these was balanced by omissions in the official returns.

Without reference to the natural increase then from foreign

From 1840 to 1850 the arrivals of foreign passengers in the ports of the United States have been

| 1840. | 2 | 4 | 1 | | | | | | | | | | | | | | | | 83,504 |
|-------|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---------|
| 1842 | | | | | | | | | | | | | | | | | | | 101,107 |
| 1843 | | | | | | | | | | | | | | | | | | | 75,159 |
| 1844 | | | | | | | | | | | | | | | | | | | 74,607 |
| 1845 | | | | | | | | | | | | | | | | | | | 102,415 |
| 1846 | | | | | | | | | | | | | | | | | | | 202,157 |
| | | | | | | | | | | | | | | | | | | | 234,756 |
| | | | | | | | | | | | | | | | | | | | 226 524 |
| 1849 | | | | | | | | | | | | | | | | | | | 269,610 |
| 1850. | | | | | | | | | | | | | | | | | | | 173,011 |

1,552,830

As the heaviest portion of this great influx of immigration took place in the latter part of the decade, it will probably be fair to estimate the natural increase during the term, at 12 per cent, being about one-third of that of the whole white population of the country at its commencement.

This will swell the aggregate to 1,739,192. De-

ducting this accession to the population from the whole amount of the increase of white inhabitants before given, that increase is shown to be 3,684,-

519, and the rate per cent is reduced to 25.95.

The density of population is a branch of the subject, which naturally first attracts the attention of the inquirer. The following table has been prepared from the most authentic data accessible to this office.

Table of the Area, and the number of Inhabitants to the square mile, of each State and Territory in the

| 1 | | | | No. of |
|---|-------------------|---------|-------------|----------|
| | , | | | inhabi- |
| | | Area in | Popula- | tants to |
| 7 | | square | tion in | square |
| | States | miles. | 1850. | mile. |
| 9 | Maine | 30,000 | 583,188 | 19.44 |
| | New Hampshire. | 9,280 | 317,964 | 34.26 |
| | Vermont | 10,212 | 313,611 | 30.07 |
| | Massachusetts | 7,800 | 994,499 | 126-10 |
| | Rhode Island | 1,360 | 147,544 | 108-04 |
| 1 | Connecticut | 4,674 | 370,791 | 79.33 |
| 1 | New York | 40.000 | 3,097,394 | 67.66 |
| 1 | New Jersey | 8,320 | 489,556 | 60.04 |
| • | Donneylvania | 46,000 | 2,311,786 | 50.25 |
| • | Pennsylvania | 2,120 | 91,535 | 43.64 |
| 1 | Delaware | | 583,035 | 62-31 |
| • | Maryland | 9,356 | | 23.17 |
| 1 | Virginia | 61,352 | 1,421,661 | 19.30 |
| l | North Carolina | 45,000 | 868,903 | 27.28 |
| • | South Carolina | 24,500 | 668,507 | |
| | Georgia | 58,000 | 905,999 | 15.68 |
| | Alabama | 50,722 | 771,671 | 15.21 |
| • | Mississippi | 47,156 | 606,555 | 12.86 |
| 9 | Louisiana | 46,431 | 511,974 | 11.02 |
| 3 | Texas | 237,321 | 212,592 | -89 |
| f | Florida | 59,268 | 87,401 | 1.47 |
| 8 | Kentucky | 37,680 | 982,405 | 26.07 |
| 3 | Tennessee | 45,600 | 1,002,625 | 21.98 |
| ٠ | Missouri | 67,380 | 682,043 | 10.12 |
| | Arkansas | 52,198 | 209,639 | 4.01 |
| , | Ohio | 33,964 | 1,980,408 | 49.55 |
| ı | Indiana | 55,405 | 988,416 | 29.23 |
| 1 | Illinois | 56,242 | 851,470 | 15.36 |
| 1 | Michigan | 56,243 | 397,654 | 7.07 |
| 1 | lowa | 50,914 | 192,214 | 3.77 |
| d | Wisconsin | 53.924 | 305,191 | 5.65 |
| ı | California | 188,981 | **** | |
| 1 | Minnesota | 83,000 | 6,077 | .07 |
| | Oregon | 341,463 | 13,293 | 03 |
| ı | New Mexico | 210,744 | 61,505 | -28 |
| ı | Utah | 187,923 | **** | |
| 1 | Nebraska | 136,700 | | **** |
| 1 | Indian | 187,171 | | |
| 1 | North West | 587,554 | | |
| | Dist of Columbia. | 60 | 51,687 | 861.45 |
| | - | | The same of | |
| | 2 | 001 505 | 93 080 709 | |

3.221,595 23,080,792

[It will be noted that the population of California, and the territories of Utah, Nebrasca, the Indian and Northwestern territories, is not included in the above table—the official returns not hav-ing been received.—Jour of Com.]

From the location, climate, productions, and the habits, and pursuits of their inhabitants, the States

of the Union may be properly arranged into the

| following groups. | | A words |
|---|---------------|-----------------|
| - Aug outliest to Mariota bid- | . 0381 or 638 | No. of inhabi- |
| Area of | by steen self | tants to |
| square miles. | Popula- | square mile. |
| New England States. 63,226 | 2,727,597 | 43.07 |
| Middle States, in- cluding Maryland, | | |
| Delaware and Ohio. 151,760 | 8,653,713 | 57.02 |
| Coast planting States, including S. Caro- | 7011111 | |
| lina, Georgia, Flor- ida, Alabama, Mis- sissippi and Louis- | | |
| iana286,077 | 3,537,089 | 12.36 |
| Central slave States, Virginia, N. Caro- | | |
| lina, Tennessee, | | |
| Kentucky, Missou- | | |
| ri and Arkansas308,210 | 5,168,000 | 16.75 |
| Northwestern States, | | |
| Indiana, Michigan, | | |
| Illinois, Wisconsin | | |
| and Iowa250,000 | 2,735,000 | 10.92 |
| Texas | 212,000 | .89 |
| California189,000 | 165,000 | .87 |
| There are points of agreer | ment in the | general |

There are points of agreement in the general characteristics of the States combined in the above groups, which warrant the mode of arrangement adopted. Maryland is classed, as heretofore, with the Middle States, because its leading interests appear to connect it rather with the commercial and manufacturing section to which it is here assigned, than with the purely agricultural States. Ohio is placed in the same connection for nearly similar reasons. There seems to be a marked propriety for setting off the new agricultural States of the northwest by themselves, as a preliminary to the comparison of their progress with other portions of the Union. The occupations which give employment to the people of the central range of States south of the Potomac, distinguish them to some extent from that division to which we have given the appellation of coast planting States.

To be continued.

Commerce of Cleveland.

The Cleveland Herald states the receipts by canal, at that place, to be larger than those of last year, notwithstanding the opening of the railroad.

| The receipts of Wheat the present yea 15th inst. are | 2,529,699 |
|---|--------------------|
| Increase, bush | ,337,140 |
| Receipts of Corn in 1851, bush | 998,059 831,704 |
| Increase, bush | 136,355 |
| Receipts of Flour in 1851, bbls | 645,730 367,737 |
| frances Mh | 027 002 |

Increase, bbls..... 277,993 and \$3 25 per bbl. for the flour, the value of the increased amount of these three articles since 1850, is \$1,906,038 25.

The Galena Advertiser gives an account of a discovery of lead ore, which promises to surpass This would secure the completion of the work by anything of the kind on record. It was made about two miles north-east of the Linsipheur Mound, is two miles distant from any other diggings, on a farm in the prairie, and was made by a boy finding mineral in a creek. On examining the bottom of this creek, it was found to be almost a solid mass tance between Wytheville and the State line is of lead ore for some ten or twelve feet in width. Some three or four holes have been sunk about four feet in the clay, on each side of the creek, and spelast twelve months in revising and improving the cimen of large black mineral taken out, weighing line from Salem to the State-line, and completing from fifty to one hundred pounds.

Virginia and Tennessee Railroad. Report of the Chief Engineer, offered November 25, 1851.

GENTLEMEN-In compliance with established usage, I present the following annual report. The difficulties encountered in executing the work between Lynchburg and Salem have been greater than was expected. Every part of the work has been prosecuted diligently, and, on the deep exca-vations, containing rock, all the force that could be worked to advantage has been employed. It was, however, found impossible to complete the difficult points in time to lay the whole track as soon as

proposed.
These points being near the eastern terminus of the road, it was necessary to incur some expense in hauling iron in order to finish the track at as early a day as possible. This additional expense will be amply repaid by the use of the road some months sooner than could otherwise be expected .months sooner than could otherwise be expected.—
It may now be promised, with certainty, that the road will be in operation to Liberty in the month of January, to Buford's in the month of March, and to Salem in July. And ten miles beyond Salem can go into operation in six weeks after the the road reaches that point For this ten miles the iron is not yet purchased. The track of this road consists of a U rail, weiging 60 lbs, to the yard, laid on substantial oak, chestnut or locust crosslaid on substantial oak, chestnut or locust cross-ties, 9 feet long, averaging in size about 6½ by 10 inches, and laid every two and a half feet. The timber is much larger, and of better quality than that generally used on railroads, affording great firmness and security to the track. The iron rails are of the very best quality of imported rails.

The chairs are cast iron of the very best quality that can be made from the Virginia ores, they weigh 19 lbs., and are cast with a projection to fit into the hollow of the rail. This metal possesses great toughness. The spikes too are made of the very best bar that can be produced from Virginia charcoal pig, and are superior to any others, made from different metals.

The track is believed to combine every quality essential to a good road, in an eminent degree, and to secure, in the future operations of the company, both safety and economy. Few, if any, can be found of better materials or better construction — The passenger trains will be able to attain a speed of thirty miles per hour, on this road, with perfect safety. Under the contract with Mr. F. B. Deane, safety. Under the contract with Mr. F. B. Deane, Jr., the cars necessary to equip the road, are now in process of construction at this place, and the It gives the following figures for the two past years, for the articles of wheat and corn:

The receipts of Wheat the present year, to the articles of Wheat the present year, to the securing these articles of Virginia manufacture.—

A sufficient number of these cars, for present use, will be completed by the end of next month. The contract with Joseph R. Anderson, Esq., of Richmond, was limited to five locomotives, one of which is to be completed by the first of December, and can be on the road by the middle of that month. Great care has been used in selecting the materials for these machines, and it is to be hoped that their performance will be such as to do credit to the enterprising builder.

road could be let by August next, all the gradua-tion could be easily completed, as soon as this ten

> After the grading is completed the superstruc-ture can be laid at the rate of ten miles per month. very light.

the definite location, with the exception of a few ginia; if true to themselves, they can all flourish.

weeks devoted to the New river survey. The exact length of the road, as now located, is 204 6-10ths miles, and the examinations have resulted in important improvements in the character of the line. It is believed that some time may yet be profitably spent in this way. A company can pay no money more profitably than that which is expended in the thorough examination of the country before a final location is made.

The party were engaged about six weeks in making a survey, from a point near Christians-burg, on our road, down New river to the mouth of

burg, on our road, down New river to the mouth of Indian Creek. At this point, they connect with a survey made under the authority of the State.

From Christiansburg to Indian Creek, a very favorable route is found. No grade exceeding 60 ft. per mile rising eastward, and none greater than 68 feet per mile falling eastward would be required—thus preserving the same limits of graduation used on the Virginia and Company of the standard of the standard of the same limits of graduation used on the Virginia and Tennessee railroad.

The descent from the summit at Christiansburg, is by a succession of grades—none exceeding 60 feet per mile, and no very expensive work is en-

The valley of New river is reached near Major James Kent's; after which the work is light and the grades are very gentle. In a few places the maximum grades are used for short distances, to

cut off bends of the river and save distance.
From Christiansburg to the mouth of Indian Creek, is 62½ miles, and will cost \$1,002,500, or \$17,000 per mile. We find in Mr. Shaw's report, \$17,000 per mile. We find in Mr. Shaw's report, the distance from Indian Creek to Greenbrier, to be 14% miles, and the cost of graduation, bridging and masonry to be \$77,760—adding \$105,000 for superstructure will give for the cost of 774 miles, from Christiansburg to the mouth of Greenbrier, \$1,-248,200, or a fraction under \$16,000 per mile. But to cover the cost of depots, cars, engines, and all contingencies, we will call it \$20,000 per mile, which, for 77½ miles, is \$1,545,000.

Let us compare the two routes proposed between the mouth of Greenbrier and Richmond. First by the Central railroad, we have the following dis-

| From | Richmond to Charlottesville 100 | Miles. |
|------|----------------------------------|--------|
| 66 | Charlottesville to Staunton 40 | ** |
| 66 | Staunton to Covington 70 | 66 |
| 88 | Covington to mouth Greenbrier 76 | 61 |
| | | 41 |

The distances by way of Christiansburg, Lynch-

| | burg, etc., are- | - | |
|---|--|-----|------|
| - | From Richmond to Lynchburg1 "Lynchburg to Christiansburg | | Mile |
| | " Christiansburg to the mouth of the Greenbrier | | ** |
| | 2 | 761 | |

Making a distance of 7½ miles in favor of the Lynchburg route. On this route the grades are 60 feet per mile, opposing the heavy trade, and 68 feet with it—while on the Covington and Staunton route, there are grades of 105 feet per mile, both ways—five continuous miles of it on the eastern slope, and 1½ on the western slope of the mountain. This last may be substituted by 2 miles of 92 and 4-10ths feet per mile, but of course the expense would be increased.

This feature would alone enable the Lynchburg line to compete successfully with the Central rail-road for all the tonnage offered for transportation between the mouth of Greenbrier and the city of Richmond. But suppose this western trade, or any portion of it, to be destined for Petersburg or Norfolk, this road would then be 30 miles shorter than

the Central to either of these points.

So that the Lynchburg route is the shortest for all three of the towns on the lower James river, and a trade sufficient to increase them all three, beyond the most sanguine expectations of their friends, and build them up into large cities capable of entering into competition with the great markets of the north would be secured to them and carried out of the reach of Baltimore. With a railroad from Staunton to Winchester, it would not be difficult to predict where all the tonnage brought from New river to Staunton would find a market. There should be no rivalry between the markets of Vir-

Let them lay aside all jealousies, and exert their united strength to complete the shortest, the cheap-est, the most efficient, and in all respects the best route to the Ohio river, as well as to the Tennessee line. Let each town and city secure a connection with this great trunk, and there will be a commerce poured down on our eastern border which will fill the measure of their prosperity. Such a system faithfully carried out, would at once erect Virginia with her diversified interests and pursuits into a powerful empire. Let them faithfully investigate the subject, and adopt the best route, which-ever that may be. And here let us take another view of this question. It has been shown that the line through Lynchburg gives Richmond the nearest line, with the best grades to the mouth of Greenbrier. The stock is already provided, and a large portion of the work is done, for a road from Richmond the stock is already provided. mond to Christiansburg, within 771 miles of the mouth of Greenbrier. This distance alone remains to be provided for, and will cost at the utmost \$1,545,000.

Now suppose the Central railroad to be complet ed to a point 16 miles west of Charlottesville, this is Deduct the distance and cost of a road between Christiansburg and the mouth of Greenbrier, and

by any one for it. Major Walter Gwynn, Chief apply the above table, in a comparison between Engineer of the James River and Kanawha canal the Central and the Virginia and Tennessee railcompany, has expressed the opinion in his late re- road, taking 105 feet per mile as the ruling grade port, that it will cost a great deal more. It may be on the one, and 68 feet as the ruling grade on the added that the gauge of track on the Lynchburg other, it will be found that the locomotive would route gives it a great superiority over the other, draw a net weight on the Virginia and Tennessee and that all of the one is laid with a substantial railroad, about 51 per cent greater than it could rail, while most of the distance between Richmond draw on the Central railroad. and Charlottesville is laid with a plate rail.

It seems therefore, that though the Central road may be valuable as a local work, and may, in that light, deserve the patronage of the State, there can be no question as to the best route, from the valley of New river to Richmond, being through the Virginia and Tennessee railroad. This question, after all, is of far greater importance to the State at road company. These distant sections of the State

To complete this scheme, the road from Petersburg to Norfolk should be finished. Then the road should be extended down the valley of the Kanawha to a point below the mouth of Coal riverthence one branch should extend to the mouth of the Kanawha, continuing across the Ohio river to both. To extend these improvements therefore, in Chillicothe, where it would intersect the great Cincinnati and Belpre road. Another branch should go to Guyandotte, and be extended to meet the line of roads running from Louisville through Frank-

fort, in that direction.

It has been asserted that a railroad from Cincinnati to Richmond could not compete with the Baltimore and Ohio road, because the latter is the shortest by a few miles. The distance from Cincinnati, by way of Parkersburg and the railroad, to
Baltimore, is 580 miles. The distance by the Virginia Central road, to Richmond, is 600 miles—by
the Virginia and Tennessee road, as was shown,
the distance is 7½ miles less, leaving only 12½ miles
world; but the introduction of railways as co-lation forms of Baltimore. If we apply to the cases the leaver better fitted by gread and safety for passers the distance is 74 miles less, leaving only 124 miles in favor of Baltimore. If we apply to this case the rule generally used for assigning to a certain

stated, the limits are 60 feet per mile in one direction, and 68 feet in the other. This would give ar incalculable advantage to our line. The Baltimore and Ohio railroad company have tried to ob-viate the difficulty of these high grades by the use of heavy engines which crushed their track rapidly. The laws of gravity are stubborn facts, which can neither be removed nor overcome. Other things being equal, the expense of transportation on a road will be in proportion as that road approaches or departs from a level. To give a clear idea of the rapid decrease of the effective power of a locomotive, as the grade increases, the following table is given, showing the net weight (in tons of 2000 lbs.), which can be drawn by a twenty-four ton engine, with eight driving wheels, on different grades, from a level to 120 feet per mile.

Grade per m. Level, 10ft. 20. 30. 40. 50. 60. 70. Weight.......616 408 306 243 202 168 144 126 Grade per m. Level. 10ft. 80. 90. 100. 110. 120. Weight......616 408 112 100 90 82 74

Some idea may be formed of the relative cost of transportation over different grades by a glance at within 170 miles of the mouth of Greenbrier, with the Blue Ridge tunnel-to go through, and the most a grade of 68 feet per mile, is nearly 70 per cent favorable estimates ever yet made would warrant us in supposing that there was yet required \$20,to greater than on one of 116 feet per mile. It is us in supposing that there was yet required \$20,to lear, therefore, that if Virginia constructs the best road that can be made from the Ohio river to Richard the distance and content of the mond, and the other Chesapeake markets of the State, that road can compete successfully with the Baltimore and Ohio road for tonnage. But it is of it will be evident that the State must make 55,000 wital importance that Virginia should avail across miles more of new road, and spend \$1,855,000 wital importance that Virginia should avail across more money to construct this road, than would be of every advantage that nature has given her in such a close contest. With regard to travel, much such a close contest. With regard to travel, much line through Lynchburg.
In this comparison, the Central railroad has received the benefit of the lowest estimates ever made north of it, will not come through Richmond. To railroad, about 51 per cent greater than it could draw on the Central railroad.

Mobile and Ohio Railroad.

An abstract of the remarks of Capt. J. CHILDE Chief Engineer of the Mobile and Ohio railroad delivered at Nashville, Tennessee, in the Representative Hall, on the 22d November, 1851.

Capt. Childe said that nature has established in the existing variety of soil, climate, and products of the valley of the Mississippi from the Gulf to large, and especially to tide water and the country of the valley of the Mississippi from the Gulf to between the mouth of Greenbrier and the Ohio the lakes, a division of industrial interests, which river, than it is to the Virginia and Tennessee rail-strongly invites the people of that valley to instistrongly invites the people of that valley to institute a perfect and corresponding division of manuhave a deep and vital interest in securing their al labor; by the introduction of the mechanic arts union by the most certain and efficient method that and manufactures, for which their coal, iron, cotand manufactures, for which their coal, iron, cotton, hemp, flax and unlimited supply of bread stuffs are a sure pledge of success. Commerce depends for success upon the natural and manual divisions of labor, whilst internal improvements serve to concentrate population and capital, until these divisions are made most perfect and productive to advance of sufficient settlements and trade to justify their construction, and pay interest upon their cost, for the purpose of building towns, selling wild lands, or of crossing 2,000 miles of uninhabited country to look at the Pacific Ocean, is a delusive and speculative indulgence, both wasteful, and subversive of the first principles of political economy, which require concentration of labor and capital, so long as the wages of human skill and industry borers better fitted by speed and safety, for passenger and light merchandise traffic, will stimulate productive industry and trade, to such an extent as rule generally used for assigning to a certain amount of ascents and descents on a road, the equivalent in distance, we will find the route by Lynch-burg to be very greatly the shortest. On the Baltimore and Ohio railroad, there is one continuous grade 12 miles long, of 116 feet per mile. There are many other grades on that road less than this, but still much higher than those on the Virginia and Tennessee railroad. On this road, as before

rence, Ohio and Upper Mississippi rivers, upon the northern lakes and along the whole of our At-lantic coast. Everywhere their number and capacity are on the increase. Even the ocean steamers multiply for the trade of those sea ports especially, which are connected extensively with the interior by long lines of railway. The cities of the south cannot create commerce at their respective ports by building steamers or sailing vessels. It is the free, speedy, and daily connection with the producing millions of an extensive interior country that can give them a large and miscellaneous exchange This connection secured by canals and railroads, then ocean vessels will come fast enough without our aid. In Europe and America under the influence of the economical principles above stated, upwards of 18,000 miles of railways are now in operation, and half as many more chartered and in progress of construction. As labor saving ma-chines, they are unrivalled, producing to their owners a sufficient return for the capital expended, and to 120,000,000 of people who enjoy their use, a reduced cost of the labor performed, and of the commodities furnished them for consumption, concurrently with the demand of at least 100,000,000 of

dollars per annum.

Railways are of two classes-the first class consists of long lines connecting the interior with tide-water, The second class of branch, or cross roads, for lateral and local purposes, but in most cases valuable tributaries to the first class lines, or to the rivers. The first class, or tidal lines, are vastly the most important to the prosperity of the country, and should receive the earliest concentrated efforts of the people in their construction. Both individual and public economy require that their course should be as direct as possible, length and grade reduced and cost moderate. These features can be attained for roads in the Mississippi valley in greater perfection than in any other part of the world, and ought not to be sacrificed to local, or speculative interests, which often seek to warp a line of road from its true course. Instances of this sort of influence are seen on many of the roads of the United States. The most prominent of which are, the New York and Erie railroad terminus, 25 miles New York and Erie railroad terminus, 25 miles above New York city, upon the Hudson river; the termini of the Baltimore and Ohio road at Wheeling, Va., and Mt. Clare, Baltimore, instead of Parkersburgh, Va., and at the water of the Bay of Baltimore, and the breaks in the line south of Washington, at Richmond, Petersburgh and Augusta gusta.

The Mobile and Ohio road has been located entirely free from such derangements, consulting first of all the general good. 3500 miles of survey-

| | have been run to determine the route, low- |
|----------|--|
| est grad | les and least cost— |
| | Miles. |
| Its leng | th in Alabama is |
| 14 | " Mississippi is |
| 88 | " Tennessee is |
| 46 | |
| 100 | " Kentucky is 391 |
| The | otal main line |
| T 10 | all main line |
| Length | of branch to Tennessee river in Mis- |
| Sissip | ppi 15 |
| Do. in | Tennessee |
| | rough Understrong order godes lynamicsum |
| To | otal main line and branch5174 |
| | ain line passes 4 miles west of Pur- |
| | nd through McNairy county 34 7-10 |
| Corner | Henderson county 1 8-10 |
| Corner | |
| - | Madison (near Jackson,)314 |
| | Gibson (near Trenton)29 |
| | Obion county221 |
| Length | from Mobile to Tennessee river346 |
| 14 | estimated, from Tennessee river to Co- |
| E) = 7.0 | lumbia 92 |
| 88 | from Columbia to Nashville 42 |
| Total 1 | ength, Mobile to Nashville |
| | ty-three miles of the Mobile end of the road |
| | |
| Will be | in complete operation by the 15th of Febru- |
| | xt. Forty-nine acres of ground for depots |
| | een obtained at Mobile, with two wharves |
| | ght to run tracks through the commercial |
| streets, | that the cars may run to the warehouses or |
| vessels | of consignees Vessels drawing 10 feet wa- |

water, 2 to 9 fathoms deep. On the bar between this anchorage ground and the Gulf, there is 204 feet water at mean low tide. On the bar at the South East Pass of the Mississippi river, there is at mean low tide 15½ feet. Difference in favor of Mobile Bay 4½ feet. The Mobile and Ohio road will be extended to this deep water, and thus the cars brought along side of vessels of 40 per cent greater capacity than can get to New Orleans.—The export and import freights by these larger vessels will be cheaper, and relieved from all charges for lighterage, or towage. Vessels from the Atlantic ocean, the West India islands, or the Caribbean sea, will generally make Mobile bay a day an sea, will generally make Mobile bay a day sooner than New Orleans; and the exchange trade of Tennessee and Kentucky, with the southern and western portions of the globe, will thus prosper at Mobile bay, via the two arms of the Mobile and Ohio road. Whilst the same trade with Europe and the North Albertia States of the ground the North Albertia States of the Carlobeau and Ohio road. and Ohio road. Whilst the same trade with Europe, and the North Atlantic States of our own country, will for like reasons thrive at Charleston and Savannah, via the Nashville and Chattanooga road. The great office of railroads is to liberate men, whenever desirable, from the obstructed natural channels of commerce, and by equalizing prices, supply and demand; break up the spirit of monopoly, domination and speculation of such cities as new York and New Orleans.

At the mouth of the Ohio it will connect with all the steamboats of the Mississippi and Ohio rivers, also with 1440 miles of railroads, at the bend of the Tennessee with the boats of that river, and thence by a central line of road, via Nashville, to Louis-ville and Cincinnati, with 1523 miles of railroads at Louisville, and 3500 miles of railroads at Cincinnati. Thus forming two great routes from the Gulf to the lakes; one ending at Chicago, the other at Cleveland, and connecting thence by railway with Baltimore, Philadelphia, New York and Boston. These two routes traverse 101 degrees of latitude, and connecting with steamers to Lake Superior on the north, to the Caribbean sea on the south will form a quick transit for passengers and for the interchange of the various products of 38 degrees of latitude; from Chagres and Trinidad to the north shore of Lake Superior, and thus create and stimulate an external and internal commerce far greater than can be promoted by the river channels alone

The middle ground of this internal commerce will be central, and Western Tennessee, where are combined the staple products of the south and north, with a temperate and healthy climate, water pow er, rich soils, iron, coal, beautiful marbles, lime-stone, and a variety of valuable timbers; all that can be needful for the prosecution of the mechanic arts and manufactures, except a system of rail-ways, by which the products of all branches of in-dustry within the State can be distributed north, east, south and west, and spread broad-cast for general consumption. The first class roads that will most perfectly form this system, are the two north and south routes above named—the Nashville, Chattanooga and Western—the Charleston and Memphis, and the Eastern Tennessee and Virginia lines. These five roads severally invite the aid of the State to the extent of furnishing the iron and machinery when the people shall have provided for or executed the local work of grading, etc.— They are all long lines, (650 to 1000 miles,) drawing the trade of other States into and through Tenmessee, and cannot fail to be eminently successful; while second class short roads, for local purposes, as branches to these long lines, or as tributaries to rivers, may fail to be profitable, and should be let alone until the long lines are completed; they will be increasing prosperity of the people then, by the increasing prosperity of the people, and the aid of the long lines, come into existence as naturally and fruitfully as branches grow from

New York, Massachusetts, Pennsylvania, Maryland, Virginia, North Carolina and Georgia have severally assisted their citizens in building long first class routes, either by a subscription of stock, a bonus, a loan of credit, or by separately building the more difficult portion of the work, and with sat-

time of trains will be found nearly correct. From Eastern railroads which center at those cities, will Mobile. But before this shall be done,

| | Miles. | | Passeng. |
|-----|--|-----|----------|
| Co | Jackson, Miss., 221 | 20 | 9 |
| | Vicksburg, " 268 | 23 | 11 |
| 86 | Bend of Ten. river 346 | 29 | 15 |
| 3.2 | Memphis, Tenn., 128 | 36 | 18 |
| 11 | Jackson. " 384 | 32 | 16 |
| | Trenton, " 409 Columbia, " 432 | 34 | 17 |
| 88 | Columbia, " 432 | 36 | 18 |
| 11 | Nashville, " 480 | 40 | 20 |
| 23 | Huntsville, Ala., 450 | 38 | 19 |
| ** | Mouth of Ohio, R., 494 | 41 | 201 |
| ** | St. Louis, Mo., 775 | 65 | 33 |
| ** | Louisville, Ky 700 | 59 | 301 |
| 11 | Cincinnati, Ohio, 800 | 68 | 34 |
| ** | Cleveland, " 1056 | 90 | 45 |
| ** | Chicago, Illinois, 875 | 74 | 361 |
| 86 | Baltimore, Md., via Nashville and Cincin- | | |
| | nati, 1445 | 144 | 62 |

The total estimated cost of the Mobile and Ohio railroad, including the branch to Tennessee river, is ten millions of dollars, of which five millions is for local works, and five millions for iron rails, chairs, spikes, cars and engines. The local work on 127½ miles in Tennessec is one million and sixty thousand dollars; for iron rails, etc., as

| Average cost per mile of least work | irs. |
|--|---------|
| Average cost per fifthe of focal work | \$8,313 |
| present prices of iron, | 8,120 |
| To build the whole road in three years, the present subscription of Mobile tur- | |
| -1-1 | |
| For local work\$6 | 000,000 |
| The new tax law do | 00,000 |
| nisnes— For local work | 00,000 |
| To be obtained in Mississippi, this win- | |
| ter, after the company law is altered, | |
| dividing the stock among the tax | |
| payers 7 | 40,000 |
| | 50,000 |
| | 10,000 |
| | 00,000 |
| Total\$5,0 | 00,000 |

In this sum are included \$50,000 and \$100,000, respectively, for depots at the Tennessee and Ohio

The rates of charges for passengers and freights on the Mobile road, will incline to the low fare system. For passengers 2 to 3 cents per mile; for heavy, low priced products of fields, forests and mines, and groceries, 1½ to 3 cents per ton per mile; for merchandise generally, 3 to 5 cts. per ton per mile; for cotton from Tennessee to Mobile, 1, 50 to \$2,50 per bale.

With fixed rates of transportation, and the prices current received each day by the passenger trains from Charleston, Mobile and New Orleans, the merchants of the interior can buy the entire crops of the country without risk; sending on one pur-chase after another for quick sale—import their chase after another for quick sale—import their own goods—and, in buying and selling constantly, in both directions, turn a profit on their capital twelve times a year. Tidal railways are the virtual extension of the city wharves throughout the land, and enable the merchants (of Nashville, for instance) to import and export for the country around with great facility.

By the time the Mobile road can be completed to the Tennessee and Ohio rivers, low pressure steam packets, built for passengers alone, will be prepared to run in connection with the road from

the Mobile road cannot fail, by its junction with the Tennessee, Ohio and Mississippi rivers, with the central Illinois road, and thereby, with the traffic of the railroads and lakes of the North, to have an immense business. The ease and safety it will afford for people to escape in winter, in a few hours from the cold blasts of the North to the temperate breezes of the South, or in summer, from the heat and sickness of the South, to the bracing airs of the North, will enlarge its travel, both through and way, beyond any present calculation. Based, however, upon low rates, upon one-third of the passengers that now pass annually up and down the Mississippi river to and from the Northern States, and upon carrying way passengers equal to one-third of the white population of the country adjoining the route, which is the first average experience of other railroads of our country, we shall have the following direct income, viz:

| 4:8 through passengers | 81 000 000 |
|--|-------------|
| \$8 From 110,000 way-passengers, at \$ | 2, 220,000 |
| " through freights of merchan | idise, |
| From way freights of do. do. do "United States mails | 738,000 |
| Total income,From which deduct all expenses for | \$2,890,000 |

| - | From which deduct all expenses for de- preciation of tracks, repairs, and work- ing the roads | 1,445,000 |
|---|---|-----------|
| | Total nett earnings | 1,445,000 |
|) | From which pay interest on five millions loan, 7 per cent., including exchange Pay for additional cars, engines, side tracks, and buildings for increasing | 350,000 |
| | business | 200,000 |
| ١ | Pay 15 per cent. dividend on stock for | 250 000 |

| local work of \$5,000,000 | 750,000 |
|--|---------|
| Total for interest, construction, and dividend | 200,000 |
| Leaving a surplus for contingencies or | 300,000 |
| | |

sinking fund of The relation of the Mobile road to New Orleans is one of deep interest to the people of that city.-After comparing very complacently their own po-sition and power with those of their neighbors at Mobile, they naturally concluded, as they had once tried and failed to build a road to Tennessee, that Mobile could only dream of constructing one to the Ohio river. But notwithstanding her incredulity, Mobile persevered in the work, and in two years from the commencement of the surveys, public sentiment pronounced it sure to succeed .-Whereas, New Orleans takes the field, without charters, surveys, or stock subscribed, lectures the people of Mississippi and Tennessee upon their several interests, and upon her own natural but aqueous rights, and calls upon them to come up in January next and give an account of their do-

Now, the spirit of domination, of frightened monopoly, or of rivalry, indicated by this unsubstan-tial movement, places New Orleans in a false position, unjust to herself and to her neighbors. Why should she seek to divert the attention of the people from the Mobile and Ohio road, by declamation and airy promises, two years at least before she can be legal authority and surveys lay a specific plan before them for a road to New Orleans? Mobile can have her road done by the time New Orleans steam packets, built for passengers alone, will be prepared to run in connection with the road from New Orleans to Mobile, and from St. Louis and Louisville to the Ohio terminus. The latter will be long, light and swift, drawing so little water as to run in the lowest stages of the rivers. By such packets, and the railroad, passengers can be conpackets, and the railroad passengers can be conpackets, and the railroad the worleans? Mobile in 36 hours, for \$12; from Louisville to Mobile in 47 hours, for \$13; and from Mobile to or from New Orleans in 12 hours for \$3.

When the voil of the time New Orleans in the worleans? Mobile in the railroad to the time now required by the river. She therefore, should stand its friend, but the river can have her road done by the time New Orleans? Mobile in 50 hours, for \$12; from Louisville to Mobile in 36 hours, for \$12; from Louisville to Mobile in 47 hours for \$13; and from Mobile to or from New Orleans in 12 hours for \$3. a bonus, a loan of credit, or by separately building the more difficult portion of the work, and with satisfactory results.

By the road from Mobile to the Tennessee and Ohio rivers, and by the other railroads connecting with the Chattanooga road at Nash-sideration of the people of North Mississippi, Tenchio rivers, and by the other railroads connecting with the Chattanooga road at Nash-sideration of the people of North Mississippi, Tenchio rivers, and by the other railroads connecting with the Southern travel of Louisville and Cinnessee, and Kentucky, showing where is their cinnati, and of the 5,000 miles of Northern and shortest and cheapest route to tide water. The

bend of the Tennessee river and its vicinity presents some attractions for three long lines of road, Charleston and Memphis; Mobile, Nashville, Louisville and Cincinnati and Mobile and Ohio. May not New Orleans desire to connect herself to these roads in the same vicinity? And if so, what will be the comparative distances to New Orleans

| and Monte: | |
|--|-------|
| Route across lake Ponchartrain, from bend of Tenn | miles |
| From do. to Mobile, | 41 |
| Difference | 88 |
| And two transhipments | |
| Difference | 11 |
| Route via bank of Mississippi, and river Amitie, | miles |
| Difference127 | |

New Orleans is 110 miles from the Gulf; Mobile, 33; 77 miles difference. Add this to the above dif-ferences, and 159 to 204 miles (according to the route taken for the New Orleans road) will be the greater distance from North Mississippi, Tennes-see, and Kentucky, to the Gulf, via, N. Orleans.— Will the interior planting and commercial interests willingly pay the expenses of this extra distance upon their exports and imports? But the position of New Orleans, with ten thousand miles of navi-gable rivers, and five hundred steamers pouring the products of six millions of people into her lap, is superior to any other city on the globe, especially, as these six will rapidly swell into sixty millions and send her the greater portion of the products of one and a half millions of square miles.— Thus situated, can N. Orleans envy Mobile, Charleston or Savannah, or any other section of country, that strives to better its condition by artificial channels of trade? No. She will not so dishonor herself. Let her rather enter the same sphere of enterprize. This field is wide before her-too wide for petty and contemptible jeal-

The "gauge" of a railroad is the width between the rails of the track. When two roads come to-gether, differing in gauge, the cars and engines of one cannot pass upon the other, and transhipment of goods and passengers must be made. The Mobile road guage is five feet, the same as the Chattanooga road. All roads within the State of Tennessee should be required by law to adopt the same; that cars from Charleston, Mobile and New Orleans, can run to any and all ports of the State. The lines hence to Louisville and Cincinnati

should also be same. Let any man review this matter with the United States map before him; trace the Mobile and Ohio road to the Tennessee river; its two great arms through west and central Tennessee, and its con-necting lines North, East, and West with all the large cities, and rivers of the Union, and he cannot avoid the conviction, that it will command more business, and revenue in proportion to length, than any other road in the Western World. Not forgetting at the same time, that the donated lands from the United States, will, when sold, pay 40 per cent of its nation court. cent. of its entire cost.

Ohio and Mississippi Railway.

The Board of Directors of the Illinois company having in charge that portion of the railway from Cincinnati to St. Louis, that lies between the latter city and Vincennes, have just closed a laborious session at St. Louis. Some of the results of their labors are given in the St. Louis Republican. The right of way has been relinquished by all the ownthese mainly because of some legal disability. The probable cost of these relinquishments will not exceed three thousand dollars. The people appreciate the benefits of the road, and freely give the right of way, and in some cases denote the ground right of way, and in some cases denote the ground required for stations. The route adopted is from Illinoistown to Careyville, Lebanon, Carlysle, Salem, Olney, and Lawrenceville to Vincennes, as surveyed by E. Gest, and by him recommended as the best, shortest, and cheapest route. This loca-

tion is said to be satisfactory. Sydney Breese has been chosen a Director in the place of B. Bond, resigned. The Republican expresses its gratification at the decision and promptness of the directors, in taking the necessary steps to get the road fairly under way at the earliest possible period. The people along the line being now satisfied that the road will be built, will lend it a helping hand.— Cin. Gazette.

Railroad Convention.

At a meeting of delegates appointed by the several counties of Christian, Hopkins and Henderson, and the city of Evansville, Ia., convened on the 8th of Nov., 1851, at Madisonville, Ky., for the purpose of adopting such measures as are best calculated to forward the construction of a railroad from Henderson to Nashville, Samuel Woodson, Esq., was elected President and C. M. Pennell Esq., was elected President and C. M. Pen and John C. Noble were appointed Secretaries.

On motion, John Ingle, Esq., and Hon. James Lockhart, of Evansville, Ia., Dr. F. G. Montgome-ry and J. P. Campbell, of Christian, John P. Cook, ry and J. F. Campbell, of Christian, John P. Cook, Esq., and J. F. Wilkins, of Hopkins, and Dr. Wm. Brewster and R. G. Beverly, of Henderson, were appointed a committee to draft and present reso-lutions for the action and adoption of this meet-

During the retirement of the committee, Col. E. H. Hopkins, by request, addressed the meeting in a forcible speech, showing the great natural resources of the country through which the road is to pass, and the importance of constructing this link to complete the great chain of railroads from the extreme north to the extreme southern limits of the country. At the conclusion of said speech, the committee on resolutions reported the following, which after being ably discussed by Messrs. Ingle,

Lockhart and others, were adopted unanimously:

Resolved, That the early construction of the
Henderson and Nashville railroad is necessary to the future prosperity of Southern Kentucky, and to preserve her relative position in the state amongst the surrounding communities, and that by concert of action in the towns and counties through which it is to pass the prospect is, in the opinion of this convention, entirely practicable.

Resolved, That as one link in a chain of rail-

roads connecting the Northern lakes with the Southern and southeastern cities and the seaboard, this road when built, cannot fail to be a main arter, of trade and travel, and one of the best paying roads in the country

Resolved, That the commissioners appointed by the charter passed at the last legislature of Kentucky to open books for the subscription of stock in said road, be requested to use every effort to secure a sufficient subscription of stock for an early

regarization of the charter.

Resolved, That said commissioners be requested to take the necessary steps, by public speeches, circulars, or otherwise to lay statistical information

before the people interested in the enterprize.

Resolved. That Col. E. H. Hopkins. James Alves and Dr. Wm. Brewster be, and they are hereby appointed a committee to procure the necessary legislation by the Kentucky Legislature now in session, to enable the counties, towns, and other corporations to subscribe stock in said road and to provide means for the payment of such stock; and that they also procure from the legislature of Tennessee, now in session, the necessary legislation for the construction of the said road from the Ken-

tucky State line to the city of Nashville.

Resolved, That Dr. F. G. Montgomery, Dr. Wm.

Miller and C. M. Pennell be, and they are hereb/ appointed a committee to procure the services of one or more gentlemen to canvass the counties between Henderson and Nashville in favor of the construction of said road; and that we recommend to the several counties the appointment of four

speakers for each county to co-operate with the speaker or speakers selected by the committee.

Resolved, on motion, that the banks of this convention be tendered to the Chairman for the able and impartial manner in which he has presided over its deliberations.

Resolved, on motion, that the American Railroad Journal, and the several papers published at
the city of Evansville, Ia., Russelville, Henderson,
Hopkinsville, Clarksville, and Nashville be re-

quested to publish the proceedings of this meet ing.
The Convention then, on motion, adjourned sine

SAMUEL WOODSON, Ch'n.

C. M. PENNEL, Secretaries. J. C. NOBLE,

Ohio and Pennsylvania Railroad.

The portion of this road between Salem and Alliance, a distance of thirteen miles, was opened for public use on Thursday, the 27th ult. The citizens of Salem got up a very spirited celebration on the occasion, and invited the officers of the company to a supper in the town hall, at which speeches were made by Gen. Robinson, the President, Mr. Roberts, the Chief Engineer, and others. The arrival of the passenger cars at the station in Salem was greeted by a very large concourse of people, and as many as the cars could carry, including a large proportion of ladies, were afterwards treated to a ride to Alliance and back. No accident occurred to mar the pleasure of the day, which will long be remembered in the annals of Salem.

The cars now run regularly, leaving Alliance at 8 o'clock, and Salem at 9 in the morning.

The express train between Pittsburg and Enon,

runs with great regularity, and carries a large quantity of passengers. In about a week the cars will run to Palestine, 49 miles from Pittsburg.

Notwithstanding the unfavorable weather, the

which is now supplied by stages; and before the close of December we expect to have a continuous line of railroad from Pittsburg to Cleveland.— Pittsburg Gaz.

Illinois.

Central Military Tract Railroad .- The line of this road extends from Clayton, on the Northern Cross road, from Springfield to Quincy, to the line of the Rock Island road, in Burea county, a total distance of about 125 miles. It will constitute, in connection with the Rock Island road, a very direct route from Quincy to Chicago. The first division of the road from Galesburg, on the route of the Peoria and Oquawka railroad, to the Rock Island road a distance of fifty miles, is to be let on the 24th

In speaking of this project the Chicago Tribune

The whole of the Central Military Tract railroad will traverse the high table lands between the Illinois and Mississippi rivers, equi-distant from those streams, and will open up a channel of com-merce through one of the most iertile and otherwise highly favored portions of the State. As a feeder to the Chicago and Rock Island road, with which it will connect west of Peru, and as furnishing another channel of communication to the Mississippi river (at Quincy), this road is of great importance to Chicago, and furnishes another to the already numerous sources of the vast tide of commerce

which is to centre here.

South of Galesburg the people are moving in this matter, and doubtless before the road is completed to that point, the means will have been secured to continue it to Clayton, at which place it will con-nect with the Northern Cross railroad. On the 6th and 7th inst., meetings were held in Macomb. Mc-Donough county, at which, addresses were delivered by some of the most influential citizens of middle by some of the most inhuential crizens of middle Illinois, among whom were C. A. Warren, R. S. Blackwell, B. R. Hampton, James M. Campbell, Esqrs., and Gen. Darnell. The following resolutions introduced by W. T. Head, Esq. of Macomb, were unanimously adopted:

Resolved. That we regard the proposed railroad from Galesburgh to Clayton, as the most eligible route for a road, and more beneficial than any other enterprise that could at this time elicit the energies and means of the citizens of McDonough

county.

Resolved, That we will in every way encourage the commencement and completion of the road by

the county court, of McDonough Co., to cause to be submitted to the people of said county by an election at some convenient and suitable time, the question whether they will vote a tax for the purpose of subscribing \$50,000 to the proposed railroad from Galesburg to Clayton.

American Railroad Journal.

Saturday, December 13, 1851.

Illinois Central Railroad.

The recent survey of this route makes the whole length of line to be built 699 miles, of which will be straight line, 626.77 miles, of radii from 1,500 to 2,000 feet, 5.40 miles; of radii from 2,000 to 3,-000 feet, 12.28 miles; of radii from 3,000 to 4,000 feet, 24.26 miles; of radii from 4,000 to 5,000 feet, 15.66 mlles; of radii over 5,000 feet, 14.63 miles. Showing about 10 per cent of curved lines, and these mostly of large radii.

The gradients are as follows: Level, 238.29 miles; ascent less than 10 feet per mile, 113.60 miles; ascent from 10 to 20 feet per mile, 118.19 The Germans and French have much more confimiles; ascent from 20 to 30 feet per mile, 89.05 miles; ascent from 30 to 40 feet per mile, 132.48 miles; ascent of 42 feet per mile, 7.50 miles. To-

tal, 699 miles.

The 42 feet grade occurs in ascending the Fever river, from Galena east to Scales Mound.

Mr. Mason estimates the cost of the whole road with the equipment at \$16,537,212. His estimates include the following items, viz :-21,428,523 cubic yards embankment. 369,951 cubic yards rock excavation; 222,206 cubic yards masonry; 10,228 feet bridging, etc., etc.; 735 miles superstructure, rails, etc.; 40 passenger stations and houses. 40 freight stations and houses; 70 locomotives and tenders; 70 passenger cars; 20 baggage cars; 700 box freight cars: 600 platform cars; 200 cattle cars; and also right of way, land and damages, fencing and engineering expenses, engine houses, machine shops, woodsheds, water tanks, tools and machinery for shops, and furniture for station houses, etc.

The company estimate the value of their land, granted by Congress, at \$18,150,000. They propose to issue bonds to the amount of \$17,000.000. based upon the lands and a mortgage of the road. The estimated net income of the road is put down at \$1,774,252, equal to 7 per cent upon about \$26,-000,000.

If the above estimates are correct, the project will prove a very good speculation to those who have control of it. They get a bonus of \$26,000,000 for building the road, which we presume will be at least \$1,000,000 to each of the persons now interested. The bounty of Congress will inure, as it generally does, to those who have wealth to control its direction. The course that the Illinois grant has taken, will, we fear, prejudice the claims of more deserving companies, for aid for similar projects.

prosperity of Mea sa atteper won to

But there is anothe view of the case. The company wish the public to furnish the means necessary to build the road, while they pocket the profits. What if the pubic should not take these bonds, will the company go on with the work with their own means? They have shown no disposition to commit themselves to any considerable amount, until they see how their negotiations in the hands of Mr. Walker are to terminate.

means of transportation of the increasing surplus of the country, a railroad from the town of Galesburg to the town of Clayton.

Resolved, That this meeting respectfully request request of the probabilities of Mr. Walker's success, than those furnished by the precedents of similar cases. to the probabilities of Mr. Walker's succeess, than We give in another column such portions of the which they have no control. After our roads are country is interested. completed a sufficient time to make a good show that John Bull, is the least inclined of all European by which the mountains can be crossed. nations, to take our railroad securities. He has already lost \$500,000,000 in railroads at home .cessful. Illinois is an unfortunate field in which the south as the 4 feet 84 inches is at the north. to invite him to a feast, after all the losses the English capitalists have sustained there. He will be very likely to insist that the old score shall be made good before he will lend any more to new projects. Our best bonds of finished roads are not popular in England. This being the case those of proposed lines will hardly sell at any rate. of those sold on foreign account.

> he may, notwithstanding, he is an able man, and popular in England, and the best that could be sent upon such a mission. If he succeeds the road will far at least as obtaining the money is concerned. move ahead. If not, what will become of the projects. nons verrons.

We believe that the company committed a seripanies can obtain money upon no other terms .it. If those immediately interested are willing vesting largely in our best securities. to risk nothing, but little can be expected from difficult task to borrow for the first hundred.

the magnificent gift of 2,500,000 acres of land; of their securities. though we will confess, that our co-operation to public good.

Air Line Railroad.

We are happy to learn that \$1,000,000, the sum required to commence work on this road, have been has passed from his control. subscribed. This secures its completion beyond a doubt. Operations will be commenced at once, and be completed.

The above is very gratifying intelligence. The Air Line railroad, after a long series of trials and defeats, has reached a point where success may be regarded as a fixed fact.

Virginia and Tennessee Railroad.

those furnished by the precedents of similar cases. recent report of the Chief Engineer of this road, C. Foreigners do not like to buy our chickens in the F. M. Garnett, Esq., as is of especial interest to egg. They are unwilling to assume the risk of the public. We are gratified in being able to give proper application of the money necessary to build so favorable an account of the progress of this imratiroads; which are 3000 miles off, and over portant work, in which so large a portion of the

It will be seen that the company propose to conof earnings, they are willing to take hold sparingly, truct a branch from their line to the mouth of the but even then, they do not wish to invest large Greenbrier river, on the Kanawha. They claim amounts in one line. We must add to this the fact, that their route is the shortest and best in Virginia,

The gauge of the Virginia and Tennessee railroad is 5 feet, to adapt itself to the gauges of the And it will be difficult to convince him, that we the roads in Georgia, Alabama, Mississippi and manage any better, or that we shall be more suc- Tennessee. The 5 feet gauge is as universal at

Illinois Central Railroad.

It is confidently reported that the last steamer brought intelligence that Mr. Walker is likely to succeed in his mission. It is stated that the loan will be taken by the Rothchilds.

Canada.

The government, or railroad party, have tridence in our railroad securities and they take most umphed in the recent elections in Canada. Hon. John Young, the leading internal improvement The above are our reasons why we are inclined man in the Provinces, and known to favor the Halto believe that Mr. Walker will not succeed. But ifax scheme, has been returned from Montreal, which is a favorable indication for that project.

Stock and Money Market.

We regard the success of this road as certain, so

We have but little alteration to note since our ous blunder in the outset. Before they went into last. Money is sufficiently abundant for all ordithe market to borrow money, they ought to have nary business operations, but scarce for purposcommenced work, and by so doing, to have shown es of speculation, and is obtained with difficulty for their confidence in the enterprize, by investing a unfinished works. The bonds of roads in operalarge amount of their own money. Other com- tion, and which make a good show of earnings, are in demand to a considerable extent for invest-Capitalists base their confidence in our enterprize, ment on foreign account. Our best customers mainly, upon that displayed by those in charge of abroad are the Germans and French, who are in-

Western securities are attracting the most attenthose that are not. If the Illinois Central Co., had tion, from the low price at which they are selling, but completed 100 miles of railroad, they would and the confidence felt in their rapid rise after the have found no difficulty in borrowing sufficient to roads shall have been in operation a sufficient build 100 miles. They will find it a much more length of time to illustrate their capacity for business. We believe that every western road now in We knew nothing of their affairs. They may operation has been completely successful, and that have already secured the loan, notwithstanding our their stocks and securities have advanced regulardoubts, to the contrary. We hope to see the road ly and steadily in this market, from the period of built. It would prove a most useful work to the their first sales. Purchasers, in addition to securcountry. Upon this ground we did all we could ing a good interest on their investments, have reto effect the passage of the bill to which secured alized a handsome premium by the rapid advance

Railroad companies will find it to their interest this end would have by no means been so hearty, not to force their bonds upon the market before the had we foreseen the that it would probably conduce opening of their works. Where a road is completmuch more to private aggrandizement, then to ed, the purchaser can estimate the value of his security; but if he invests where the work is in progress, he, to a certain extent, is obliged to guarantee the faithful application of the money, after it

We have become so accustomed to the exportation of specie, that the shipment of large amounts will be vigorously pushed forward till the road shall has ceased to excite much alarm. Our exports last week exceeded \$2,500,000. They will be very small this week.

On the whole, we regard the prospects ahead as favorable. We believe that most of our roads in progress will be able to borrow on not very exhor-

| | AME | |
|--|-----------------------------|----------------|
| bitant terms, sufficient means to carr | y forward their | 8 |
| works. Money will continue to corrate of interest, but it can be had for | r all legitimate | 1 |
| enterprises. The receipts of Morris canal, for w | reek | I |
| ending 29th ult., being 34th week | k of \$2,443 33 | 1 |
| 1851, wereSame week last year | | 0 |
| Decrease 34th week, 1851 Total receipts to above date, 1851 Do. do. 1850 | 108,849 02 | I |
| In favor of 1851 | the Co., 23.080 tons. | 1 |
| TotalReceived during the season of 1850. | 191,100 " | 0 |
| Increase this year | 247,747 " | |
| Cleveland, Columbus and Cincinn | | 3 |
| A cash dividend of four per cent. | on the capital | F |
| stock has been declared for the last Receipts for November, \$57,264 | | 0 |
| months ending December 1st, \$343, | 501 34. | 8 |
| Number of passengers arrived 101,732. | over the road, | |
| The annexed table shows the forei | gn Imports and | h |
| Exports of specie and bullion since | 1821. In 1850 | 1 |
| and 1851 the receipts of gold dust fi | | |
| were considered as domestic impor- included in the statement below. | is, and are not | |
| Year. Imported. | Exported. | |
| 1821\$8,064,890 18223,369,846 | \$10,478,059 10,810,180 | |
| 1823 5,097,896 | 6,372,987 | U |
| 1824 | 7,014,552 8,797,055 | U |
| 1826 6,880,966 | 4,764,533 | U |
| 1827 | 8,014,880 8,243,476 | U |
| 1829 | 4,924,020 2,170,773 | L |
| 1831 7,305,945 | 9,014,981 | A |
| 1832 5,907,504 1833 7,070,368 | 5,656,340 2,611,701 | I |
| 1834 17,911,632 | 2,076,758 | II K |
| 1835 | 9,477,775 4,324,336 | M |
| 1837 10,516,414 | 5,976,249 | M |
| 1838 | 3,503,016 8,776,743 | M |
| 1840 8,882,813 | 8,417,014 | N |
| 1841 | 10,034,232 4,813,539 | N |
| 1843 | 1,520,791 | P |
| 1844 | 5,454,214 8,606,495 | |
| 1846 3,777,732 1847 24,123,289 | 3,905,268 | A |
| 1848 6,360,424 | 1,907,738 15,841,620 | B |
| 1849 6,651,240 | 5,404,648 | B |
| 1850 | 7,522,994 29,231,880 | BC |
| Total\$268,417,774 | \$222,621,923 | CE |
| Excess of imports, \$45,795,851. | o this should | EEE |
| be added about \$40,000,000 received from California. | | H |
| The tolls on the Delaware canal | at Easton, for | N |
| the year ending 30th November, wagainst 173,650, same time last year. | ere \$204,352, | NO |
| Columbia Railroad.—The followin the collections at this office: | g table shows | P |
| Amount as per last report | \$358,243 13 | Pa Ru Re |
| Whole amount since 30th Nov., 1856 Same time last year | 0. 392.764 64 | Su |
| Increase | | |
| | | |

| Ū. | RICAN RAILROAD JOURN | AL. | 793 |
|--------|--|--|----------------|
| ir | United States Mint The annexed statement | RAILROAD STOCKS. | erte residiron |
| h | shows the operations of the United States Mint, at | CORRECTED FOR WEDNESDAY OF BACH | WEEK. |
| te | Philadelphia, for November:— | Dec. 10. | Carles . |
| | Gold. Pieces. Amount. | Albany and Schenectady 894 | 95 |
| | Double Eagles 228,217 \$4,564,340 00 | Atlantic and St. Lawrence 60a65 | ment la |
| | Eagles | Androscoggin and Kennebec. 30a35 | |
| 3 | Half Eagles 38,256 191,280 00 Quarter Eagles 105,404 263,510 00 | Boston and Maine106 | 105 |
| 5 | Gold Dollars 216,079 216,079 00 | Boston and Worcester 103 | 109 |
| - | | Boston and Providence 90 | 891 |
| 2 | Total 612,596 \$5,481,609 00 | Bost., Concord and Montreal 35 | 351 |
| 2 | Silver. Pieces. Amount. | Baltimore and Ohio 674 | _ |
| 8 | Half Dollars 12,000 \$6,000 00 | Baltimore and Susquehanna 34 | _ |
| 4 | Quarter Dollars 62,000 15,500 00 | Cheshire | 45 |
| * | Dimes 137,000 13,700 00 | Cleveland and Columbus | - |
| | Half Dimes 60,000 3,000 00 Three Cent Pieces 500,200 15,006 00 | Columbus and Xenia | 1 (1) |
| 3. | Three Cent Pieces 500,200 15,006 00 | Camden and Amboy 60 | |
| | Total | Delaware and Hudson (canal). 99 | 100 |
| | Copper. Pieces. Amount. | Eastern 994 | 997 |
| | Cents 193,124 \$1,931 24 | Erie 864 | 87 |
| | | Fall River 971 | 94 |
| | Total1,577,420 \$5,536,796 24 | Fitchburgh1114 | 1101 |
| | Gold bullion deposited for coinage from 1st to | Georgia | |
| - | 30th November, 1851, inclusive: | Georgia Central | 671 |
| 1 | From California | Harlem | 674 |
| | Other sources | Housatonic (preferred) | _ |
| c | | Hudson River 70 | 70 |
| - | Total\$5,450,000 | Kennebec and Portland 50a55 | - |
| , | Silver bullion deposited in same time \$20,800 | Little Miami | |
| 1 | A large supply of small gold coin remains on | Long Island | 164 |
| , | hand beyond demands of depositors. | Mad River 90 | 93 |
| d | Railway Share & Stock List; | Michigan Central105 | 1081 |
| 0 | | Montgomery and West Point | 1001 |
| a | CORRECTED WEEKLY FOR THE | Michigan Southern | |
| t | AMERICAN RAILROAD JOURNAL. | Manchester and Lawrence 821 | - |
| 1 | NEW VODE DECEMBED 12 1951 | Morris (canal) | 144 |
| | NEW YORK DECEMBER 13, 1851. | New York and New Haven 1084 | 1084 |
| 9 | GOVERNMENT AND STATE SECURITIES. | New Jersey 64# | 130 |
| 0 | U. S. 5's, 18531014 | Northern | 68 |
| 7 | U. S. 6's, 18561031 | New Bedford and Taunton 108 | _ |
| 5 | U. S. 6's, 1862110‡ | Norwich and Worcester | 55 |
| 3 | U. S. 6's, 1862—coupon | Norfolk County 151 | 15 |
| 0 | U. S. 6's, 1867 | Ogdensburgh 29 | 29% |
| 6 | U. S. 6's, 1868—coupon | Old Colony | 65 |
| 0 | Land Warrants140a145 | Passumpsic | 72 |
| 3 | Arkansas 6's | Pennsylvania | |
| 0 | Alabama 5's91a92 | Phitsfield and North Adams 95 Philadelphia, Wilm'gton & Balt. 291 | 281 |
| | Indiana 5's | Petersburg | 201 |
| s I | Illinois 6's, 1870 | Richmond and Frederickshurg — | - |
| | Kentucky 6's, 1871 | Richmond and Petersburg - | 114411 |
| ; | Massachusetts 5's, 1859 | Reading 594 | 60 |
|) | Maine 6's, 1855 | Rochester and Syracuse 1111 | 111 |
| 1 | Maryland 6's | Rutland | 431 |
| 1 | Michigan | Stonington | 44 |
| П | Mississippi | Syracuse and Utica123 | - |
| | New York 6's, 1855103 | Sullivan 15a20 | - |
| ı. | Ohio 6's, 1860 | Taunton Branch 108 | 110 |
| | Pennsylvania 5's 91 | Troy and Greenbush 90 | |
| 1 | RAILROAD BONDS. | Tonawanda | 1 100 |
| 1 | Atlantic and St. Lawrence, 6 per cent 85 | Utica and Schenectady 129 | 1274 |
| ч | Baltimore and Ohio, 1867 | Vermont and Canada 97 | 994 |
| 1 | Boston and Providence 6's, 1855 | Vermont and Massachusette 254 | 264 |
| 1 | Boston and Worcester 6's, 1855, convertible, 1071 | Vermont and Massachusetts 26 Virginia Central | 271 |
| | Bost., Concord and Mont. 6's, 1860, mortgage, 871 | Western104 | 1021 |
| | Cheshire 6's, 1860 | Wilmington and Raleigh 56 | 1031 |
| | Connecticut River 6's, convertible 89 | York and Cumberland (Pa.) 191 | 1111 |
| 1 | Erie 7's, 1859 | | 177 - 111 1 |
| Ľ | Erie 7's, 1868 | Georgia. | - Talker |
| 1 | Hudson River 7's 1853 | Waynesboro' RailroadIt affords us | pleasure |
| | Michigan Central, convertible, 8's, 1856 1041 | to announce that the Waynesboro' railr | oad was |
| 1. | New York and New Haven 1001 | opened on Monday last to a distance o | f fifteen |
| 1 | Norwich and Worcester, mortgage, 186080a85 | miles. So much of it as is opened is repre | sented to |
| 1 | Old Colony, 1854 974 | be the finest and best constructed road in th | e south. |
| В | Ogdensburg 7's, 1859 931 | The remainder of it, it is presumed, will b | e equal |
| ы | Portsmouth and Concord80a85 | ly well built. The work is now progress | ing ver |
| li | Passumpsic 6's, 1859 | idly, and the road will be pushed forward a | ang rap- |
| 11.3 | Reading mortgage, 1860 | ly as possible to completion. | a speedi- |
| 1 | " " 1870 70 | An arrangement has been made to run fo | no bearing |
| 1 | | and occumance torun 10 | ur-norse |
| 1 | Sullivan, mortgage 6's, 1855 67 | coacnes in connection with the road from | Ina me |
| 1 | Sullivan, mortgage 6's, 1855 | coaches in connection with the road, from teen mile point to Augusta. This will | take the |
| 1 04.7 | Sullivan, mortgage 6's, 1855 | coacnes in connection with the road, from teen mile point to Augusta. This will mails and passengers through from this Augusta in 14 hours.—Sav. Repub. | take the |

| | RAILROAD STOCKS. | personal distance |
|---|--|-------------------|
| | [CORRECTED FOR WEDNESDAY OF EACH | WEEK.] |
| | Dec. 10. | Dec. 3. |
| | Albany and Schenectady 891 | 95 |
| 1 | Atlantic and St. Lawrence60a65 | mica la |
| | Androscoggin and Kennebec. 30a35 | - |
| 1 | Boston and Maine 1064 | 1054 |
| ١ | Boston and Lowell108 | 109 |
| ۱ | Boston and Worcester 103 | 1031 |
| 1 | Bost., Concord and Montreal 35 | 894 |
| | Bost., Concord and Montreal 35 Baltimore and Ohio 674 | 351 |
| 1 | Baltimore and Susquehanna 34 | mille = |
|) | Cheshire | 45 |
|) | Cleveland and Columbus | - |
|) | Columbus and Xenia | - |
|) | Camden and Amboy | - |
| | Connecticut River 60 | - |
|) | Delaware and Hudson (canal) 99 | 100 |
| | Eastern 994 | 997 |
| Į | Erie 861 | 87 |
| | Fall River 971 | 94 |
| Į | Fitchburgh1114 | 1101 |
|) | Georgia | - |
| j | Georgia Central | - |
|) | Harlem | 671 |
|) | Hartford and New Haven 122 | - |
| | Housatonic (preferred) 70 | 70 |
|) | Hudson River | 70 |
|) | Little Miami | _ |
| 1 | Long Island | 161 |
| | Mad River | |
| | Madison and Indianapolis 90 | 93 |
| | Michigan Central105 | 1081 |
| 1 | Montgomery and West Point | |
| | Michigan Southern | * ** |
| | Manchester and Lawrence 821 | - |
| | Morris (canal) | 144 |
| | New York and New Haven 108 | 1084 |
| | New Jersey | 130 |
| | Northern 64‡ Nashua and Lowell 104‡ | 68 |
| | Nashua and Lowell | - |
| | New Bedford and Taunton108 Norwich and Worcester53 | 55 |
| ı | Norfolk County | 55 15 |
| | Ogdensburgh | 297 |
| - | Old Colony | 65 |
| - | Passumpsic 704 | 72 |
| 1 | Pennsylvania | 7-0 |
| 1 | Pennsylvania Pittsfield and North Adams 95 Philadelphia Wilming St. 90 | - |
| 1 | Filliageiphia, willington & Rait 294 | 281 |
| 1 | Petersburg | _ |
| 1 | Petersburg | - |
| 1 | Richmond and Petersburg | · / · |
| 1 | Reading 597 | 60 |
| 1 | Rochester and Syracuse 1111 | 111 |
| 1 | Rutland 40 | 431 |
| 1 | Stonington | 44 |
| 1 | South Carolina | - |
| 1 | Syracuse and Utica1231 | - |
| 1 | Sullivan | 110 |
| 1 | Troy and Greenbush90 | 110 |
| 1 | Tonawanda | and the same |
| 1 | Utica and Schenectady 129 | 1971 |
| ĺ | Vermont and Canada 97 | 127‡ 99‡ |
| 1 | Vermont Central 251 | 261 |
| 1 | Vermont and Massachusetts 26 | 271 |
| 1 | Virginia Central | 2/1 |
| 1 | Western 1041 | 1034 |
| | Wilmington and Raleigh 56 | _ |
| 1 | York and Cumberland (Pa.) 191 | - |
| 1 | | |
| 1 | Wayneshore' Pailrand Is affective | and the second |
| - | Waynesboro' RailroadIt affords us | pleasure |
| ı | to announce that the Wayneshoro' rails | seur beer |

Pennsylvania.

Philadelphia, Germantown and Norristown Railroad.-We learn from a recent report of the board of managers that this company have had a very prosperous business season the past year. The number of passengers for the year ending 31st October, was 506,501, an increase of 69,066 over last year. In every article of freight there has been a large increase, except coal. In that there has been a falling off, owing in a great measure to the destruction of the bridge at Conshohocken, in September, 1850, which rendered it impossible for much coal business to be done until February. The board expect that the coal business will be increased when the new bridge across the Schuylkill is finished at the lower end of Norristown. This bridge over which a track is to be laid will furnish the first good connection between the Norristown and Reading roads, and it is estimated that 20,000 tons of coal will pass over it the first year to supply Norristown and vicinity.

The receipts for the past year have been as follows:

From passengers on Norristown branch.\$63,436 90 Germantown 31,637 00

Amount from passengers ... Freight on Norristown branch.39,153 42 Germantown " 2,550 35

Amount from freight..... 41.703 77

Amount from passengers and freight...136,777 67 Sale of old materials 1,946 25 2.583 25

Total receipts from all sources.....\$139,360 92 In their last annual report the board estimated the revenue of the year at \$130,000. Excess real-

ised above estimate, \$9,360 92. Cash in bank, 1st Nov., 1850...... \$4,253 17
Funds in hand of Con. Com...... 10,000 00

14.253 17 Total receipts, as above 139,360 92

The total expenditures of the year have been \$146,278 80, leaving a balance of \$7,335 29.

The prospects of the road are encouraging. The receipts for 1852 are estimated at \$152,500, and the total expense, \$103,000, leaving \$49,500 net in-

There have been two railroad companies incorporated and organised, for the purpose of constructing roads that will, when completed, form extensions of this road: the Chester Valley railroad company-the road to extend from Norristown to Downingtown, 22 miles; and the Chestnut Hill railroad company-the road to extend from Germantown to Chestnut Hill, 31 miles. The former is the old Norristown and Valley road revived, the grading upon which is about three-fourths done, and which it is estimated will require \$350,000 to complete it. The latter road will cost about \$80.-000.

Both these roads would bring large additional business to this road, and prove highly advantageous to it.

STATEMENT OF LOAN AND STOCK OCCOUNT. Amount of consolidated loan issued.\$272,500 16,000 shares Capital stock authorised by law... Amount of capital stock in circula-15,761 shares. tion (par value \$50, \$788,050)..

That may be issued by the company 239 shares.

Total stock and loan\$1,060,550

Hannibal and St. Josephs Railroad .- The commencement of work upon this great line of railroad took place at Hannibal on the 3d ult., with appropriate ceremonies. The event collected together a great concourse of people. The principal orator Hannibal and St. Josephs can easily connect on on the occasion was J. B. Crockett, Esq., of the St. Louis Intelligencer, who delivered a most eloquent and spirited address. The ceremony of breaking ground was performed by the President of the road, Col. R. M. Stewart, who prefaced the act by the following remarks:

Fellow Citizens :- I believe I speak the sentiments of all when I say that this is one of the brightest days in the history of the State. Strange as it may appear to those States which have observed our sluggish movements heretofore with disgust, and contemplated our tardy policy with con-tempt, and who have been accustomed to undervalue our vast resources, which have been lost sight of in our lack of energy and public spirit, nevertheless this is the second occasion of a like character which has been celebrated within the last six months; for, within that time, the enterprising co-workers in advancing internal improvements, have commenced the construction of a railroad west from St. Louis that the State will be proud of; and it is our wish that the Hannibal and St. Joseph railroad may merit equal favor in the high opinions of the people of the State of Missouri. Public spirit and enterprise are embarked in the two schemes. with a certainty of their being carried out and completed, and with full assurances that nothing will intervene, unless it might be that God should rend the earth asunder with an earthquake, to prevent its full consummation. I speak thus emphatically, because I know that the people of this State have manifested a determination to push ahead with unbounded energy in the work, and the declaration has gone forth from the lips of men in mighty num-bers assembled, that it shall be accomplished. Yes, it shall be completed, whether the general government gives us what even-handed justice requires, by making appropriations of lands to aid in the work, as it has done to our sister States, or persists in that unjust policy which has compelled Missou-ri to stand back for the last quarter of a century. Fellow Citizens: Missouri is able herself to build

this road, even if other older States of the confederacy, which have been the special recipients of the favors of the general congress, do unite, and thus defeat the measures introduced for her just rights. I do not anticipate that our claims fail to meet with attention commensurate with their importance; but if opposition be made, we will rely on our own resources. We have burst the chains which have so long bound us, hand and foot, and have thrown off the shackles which have crippled our energies, and have taken the responsibility to speak and act for curselves. It shall no longer be said that Missouri is behind the improvements of the other States of the confederacy, for we intend to make her what the God of Nature designed her to bemost happy, peaceful and prosperous country.

The State has come forward nobly in the work and extended her credit to aid in the progress of the enterprise. Through her liberality, a loan of \$2, 500,000 was authorised for its consummation. Already the requisite stock has been taken to secure both loans. The success of the enterprise is renboth loans. dered premanent by a soil of unbounded fertility and the loveliest section of country, I was about to say, on the American continent. There is no say, on the American continent. country containing the same extent of territory which is capable of sustaining such an amount of population in full vigor as our State, and all we want to successfully establish the truth of our as-sertions in regard to the matter is, to open the ave-nue for carrying off our products. This road nue for carrying off our products. This road would be intersected at all points by numberless other rail and plank roads, to even the remotest in the States near to a good market; and such an avalanche of the riches of Missouri's soil will be poured into the Mississippi, to be borne on her quiet bosom to the ocean, and from thence carried to all parts of the earth, as will speak in tones which can-not be controverted, endorsing all which we claim for our State.

It is well known to our readers that the State of Missouri subscribes one-half of the cost of the two great lines of railroad-the Pacific, and the Hannibal and St. Josephs. Both of these roads are to run from the east and west lines of the State. The the east with the Northern Cross road of Illinois, and by this means be brought into direct connection with all the railroads of the United States, and constitute its line the great route of travel west.

The distance from Hannibal to St. Josephs is about 200 miles. The route traverses the finest portion of the State, and one of the best in the counry. It is remarkably favorable for a railroadmuch more so than that of the Pacific road. The country traversed is well settled, and its inhabitants, with State aid, can easily furnish the means for the construction of the road.

The amount of private and county subscriptions exceed \$1,000,000. This carries an equal amount of State subscription, so that the immediate means of the company are \$2,000,000, sufficient for all present purposes.

The company are indebted for the favorable position of its affairs mainly to the efforts of its able and energetic president, who has, to a great extent, been the life and soul of the project. It has now reached the point, from which future progress will be comparatively easy, and success certain. The project will come before the public under favorable auspices, and will undoubtedly receive the encouragement it deserves.

The directors of the company for the present year are, R. M. Stewart, president, John Corby, T. S. Talbot, R. I. Boyd, John Graves, G. A. Shortridge, Z. G. Draper, E. M. Moffett, R. T. Lakenan.

Railroads in the South.

There appears to be every indication, that a number of the Southern States, during the present winter, while their legislatures are in session, will commit themselves strongly in favor of some general system of internal improvement within their respective territories. The State of Tennessee has already lent her aid to two roads, the East Tennessee and Georgia, and the Nashville and Chattanooga. We believe that there is not much doubt that she will give to all her important lines now in progress and contemplation, the benefit of these precedents. The railroads of Tennessee cost much higher than those of any western or southern State, owing to the irregular surface of the country, and the difficulty in crossing the leading water courses. The amount of the aid to be furnished by the State, seems by general consent is to be limited to the cost of the iron, and in some cases the equipment. Should the State take up the leading lines, Tennessee will become the theatre of very active operations for some years to come.

We can see no objection to the adoption of such a policy. The State places herself in the light of a mortgage holding abundant security. With her endorsement, companies can sell their bonds at par. when without it, they could not probably obtain over 80 cents on the dollar, if they could sell them at any price. The difference is nearly sufficient to determine the character of a road as a paying project. There is another advantage resulting from a State becoming a party to railroads. Her securities go abroad and are the means of bringing capital into our country while the bonds of companies would have to be sold in our own markets, which add still more, to the high rates of interest which our companies are compelled to pay.

What we have said of Tennessee will apply equally well to the States of Alabama, Mississippi and Louisiana. Each of these are agitating some scheme to assist the railroads in progress and projected within their borders. All of them feel the necessity of acting in their collective capacity, in the prosecution of important lines that cannot be executed without such aid, and the present season probably will not pass, without the adoption by each, of some well digested plan to carry out a comprehensive scheme of internal improvements, suited to the wants of each.

Cotton, Woollen and Iron Manufactures.

The following is an official statement of the quantity of cotton, wool and iron consumed in the United States during the past year, together with the value of the raw material consumed, number of hands employed, and value and quantity of the article manufactured :

Cotton Goods in the United States.

| Capital invested | \$74,501,031 |
|----------------------------------|--------------|
| Bales of cotton used | |
| Tons of coal consumed | . 121,099 |
| Value of all the raw material | . 34.835,056 |
| Hands employed | . 102,287 |
| Value of entire product | |
| Yards of sheeting etc | |
| TTT - 11 34 C - 1 C 41 - TT - 24 | .7 64 |

Woollen Manufactures of the United States. Capital invested\$28,118,650 Pounds of wool used.....

| Tons of coal | |
|-------------------------------|------------|
| Value of all the raw material | 25,755,988 |
| Hands employed | 39,251 |
| Value of entire products | 43,207,555 |
| Yards of cloth manufactured | 82,206,652 |
| | |

| Wrought Iron Works of the United | States. |
|----------------------------------|--------------|
| Capital invested | \$13,995,220 |
| Tons of pig metal consumed | 251,491 |
| Tons of blooms used | 33,344 |
| Tons of ore | |

| Tons of ore | 78.767 |
|--------------------------------|------------|
| Tons of mineral coal | 527,063 |
| Bushels of coke and charcoal | |
| Value of raw material and fuel | 9,518,109 |
| Hands employed | 12,975 |
| Tons of wrought iron made | 272,044 |
| Value of entire products | 16,387,074 |

Productive Establishments of the United States.

| Cot- | Wool- | Cast- | Pig | Wro |
|------------------------|-------|-------|-------|------|
| ton. | lens. | ings. | iron. | iron |
| Massachusetts213 | 119 | 68 | 6 | 6 |
| Connecticut128 | 149 | 60 | 13 | 18 |
| New York 86 | 249 | 323 | 18 | 60 |
| Delaware 12 | 8 | 13 | | 2 |
| Maryland 24 | 38 | 16 | 18 | 17 |
| Virginia 27 | 121 | 54 | 29 | 39 |
| South Carolina 18 | | 6 | | •• |
| Georgia 35 | 3 | 4 | 3 | 2 |
| Tennessee 33 | 4 | 16 | 23 | 42 |
| Kentucky 8 | 25 | 20 | 21 | 4 |
| Ohio 8 | 130 | 183 | 25 | 11 |
| Missouri 2 | 1 | 6 | 5 | 2 |
| Rhode Island 158 | 45 | 20 | | 1 |
| Pennsylvania 208 | 580 | 320 | 180 | 131 |
| New Jersey 21 | 41 | 45 | 10 | 53 |
| Maine 12 | 36 | 25 | 1 | |
| New Hampshire. 44 | 61 | 26 | 1 | 2 |
| Wisconsin | 9 | 15 | 1 | |
| Illinois | 16 | 29 | 2 | |
| Alabama 12 | | 10 | 3 | 1 |
| Louisiana | | 8 | | |
| Dt. of Columbia. 1 | 1 | 2 | | |
| Mississippi 2 | | 8 | | |
| Florida | | | | |
| North Carolina 28 | 1 | 5 | 2 | 19 |
| Texas | 1 | | | |
| Arkansas 3 | | | | |
| Michigan | 15 | 68 | 1 | |
| Vermont 9 | 72 | 26 | 3 | 8 |
| Indiana 2 | 33 | 14 | 2 | 3 |
| California | | 1 | | |
| Iowa | 1 | 3 | | |
| datagos a es han soith | 0.10 | _ | | 100 |
| Total1694 | 1559 | 1391 | 375 | 422 |

Abstract of the President's Message.

The message commences by congratulating the tic and foreign relations.

It gives a brief history of the "illegal and illfated" Cuban expedition; states that no proper effort will be spared to procure the release of those who are now in confinement, notwithstanding they have forteited the protection of the government.

It advocates neutrality and non-intervention in the controversies of other nations. But while advocating this policy, the government is anxious to see the same forbearance on the part of other other governments, and sympathizes with every struggle against oppression.

It states that the government adheres to, and will maintain the principle, that every regularly documented merchant vessel, and those on board of it shall find protection in the flag that is over them.

It calls attention to the proposition for reciprocal trade with Canada, and to a proposition that the boundary line between Oregon and the British possessions, should be authoritatively marked

It states that claims against Portugal have been adjusted.

It recommends Congress to consider in what manner Kossuth and his companions shall be received and treated.

It favors the independence of the Sandwich Is-

It deplores the disturbances in Northern Mexico. It states that the Tehuantepec railroad convention only awaits the ratification of the Mexican government. Until quiet has been restored in Nicaragua, the question pending between the two countries cannot be disposed of. Passengers have actually traversed the inter-oceanic communication from San Juan to the Pacific. A considerable part of the Panama railroad is completed.

It recommends that the salary of the Commissioner to China be raised on an equality with those of other ministers

| П | | |
|---|---|----|
| | The total available means of the last fiscal yes | |
| | were \$58,917,524 The total expenditures 48,905,878 The total imports 215,725,995 | 36 |
| | The total expenditures 48,605,878 t | 00 |
| | The total exports | 00 |

Total payment of cash on account of public debt since Dec. 1, 1850. 7,501,456 56 Public debt on the 20th Nov., 1851. 62,560,395 26 The receipts for the next fiscal year

Exports of last fiscal year exhibit increase over previous year of... 43,646,322 00

The message then shows that the low rate of duties has not increased the demand or raised the price of our agricultural products in foreign markets, and recommends the substitution of specific for ad valorem duties.

It warns the people against the injurious tendency of large exports of specie. Should it be exported during the remaining three-quarters of the year, at the same rate as during the first quarter, it will take from our metallic currency the enormous amount of \$58,607,308.

It recommends measures for the extinguishment of the public debt, and states that measures have been adopted for the payment of the \$10,000,000 to

It recommends attention to the survey and dis-

provement of Rivers and Harbors. of the S. W. Frontier against the Indian depredapeople upon the peaceful condition of our domestions. A revision of the United States Statutes.-A commission to settle private claims.

There have been some Indian troubles. But we are now at peace with all the tribes.

The census reports are all in, except those from California.

The extension of the Capitol is progressing with rapidity.

The expenditures of the War Department for the last fiscal year are \$9,060,268 58, showing a reduction.

Several alterations in the regulations of the Navy, in regard to rank, and grade, punishmen's, etc., are proposed.

The reduction of postage has caused a falling off in the revenue of the Department. It recommends that the letter rates be adhered to, but that the rates on printed matter be made more simple and uniform.

It detends the Fugitive Slave Law, deplores the resistance to it, and avows the determination of the President to give all aid, legally in his power, to its enforcement.

It expresses a belief that a determination exists in certain quarters to overturn the Constitution. and rend asunder the Union.

And it recommends that the Compromise be considered a final settlement, in principle and substance, of the dangerous and exciting subjects which they embrace; and congratulates the country upon the general acquiescence in it.

Exports of Great Britain.

A publication has been made by the British Board of Trade showing the countries consuming the exports of the Kingdom in 1850. Exclusive of the British possessions, the United States are by far the best customers, the German States the next, though not one half in amount. The fourteen countries taking over one million sterling each,

| • | rank as follows:— | |
|---|---|-------------|
| | 1. British possessions and settlements. | £18.628.899 |
| | 2. United States | 14,891,951 |
| | 3. Germany | 7,457,346 |
| 1 | 4. Holland | |
| ; | 5. Turkey Wallachia and Moldavia, | 2,810,425 |
| 3 | 6. Brazil | 2,544,837 |
|) | 7. France | 2,403,702 |
|) | 8. China | |
| | 9. Foreign West India Islands | -,-,-,- |
| 3 | [Cuba, &c.] | 1,517,744 |
| ; | 10. Russia | 1,464,834 |
| | 11. Chili | 1,156,266 |
|) | 12. Belgium | 1.136 237 |
| • | 13. Naples and Sicily | 1,026,456 |
| | 14. Portugal | 1,029,204 |
|) | | -,, |
| | | £61,184,688 |
| • | 32 other States [each below one | ,,000 |
| | million] | 10.183.197 |
| - | | |
| | Grand Total | AN1 900 005 |

Ogdensburg and Northern Railroad.

A week ago 17 vessels were unloaded at Ogdensburg, and a fleet of 46 vessels in addition were on the way thither. The last Ogdensburg Sentinel gives the names and cargoes of 20 vessels, steamers, brigs, schooners and sloops that had arrived in the previous three days. They brought 28,578 barrels of flour, 33,504 bushels of corn and wheat. 80 barrels of salt, and 60 barrels of ashes. The prospect of the speedy closing of navigation has hurried forward western and Canadian produce,-The immense storehouses and granaries of the Ogposal of the public lands in California. The es- densburg railroad are essentially completed. They tablishment of an Agricultural Bureau. The re- will contain 460,000 barrels of flour. The grain vision of the laws on the subject of fees of Dis- elevator raises 1300 bushels in an hour, and is furtrict Attorneys, Clerks, Marshals, etc. The im- nished with ample room for the storage of 100,000

Kentucky.

Maysville and Big Sandy Railroad .- A survey of the route of this road has been completed under charge of C. B. Child. There are several routes. One is to run along the Ohio river, and is 88 miles in length, and it is recommended as being remarkably favorable for the construction of the proposed road. The maximum grades will not exceed 15 feet to the mile, and the sharpest curves have a radius of 2865 feet. The lines will run in many places perfectly straight-in some places on the will be required, and there is an abundant supply of stone and timber along the route, which can be used for the stream crossings, as well as for the general purposes of construction.

The other lines proposed are interior, and have an advantage in point of distance of about 10 miles. Those which have been surveyed are reported to be of more difficult construction than the river line, but considering the country they pass through, are not at all unfavorable.

It is the opinion of the engineers, who have been engaged in the survey of these routes, that few railways in the country, of equal length, have equally favorable elements for making a fast, cheap, yet permanent and profitable line.

Decision against the Atlantic and Mississippi Railroad .- We have been permitted, says the Cincinnati Commercial, to make the following extract from a letter written by a distinguished member of the bar in attendance, on the Supreme Court, now in session in the Southern District, at Mt. Vernon. This leaves the Cincinnati and St. Louis railway without a competitor across the State of Illinois to St. Louis :-

Mt. Vernon, Ill., Nov. 23, 1851. On last Saturday week the case of the Atlantic

and Mississippi railroad company, (Terre Haute and St. Louis line,) was argued before the Supreme Court. This question was as to the right of the company to condemn lands under the general law, having failed to procure the consent of the Legislature to construct their road. Messrs. Scates, Constable Rust and Mr. Wait, the President, for the company; and Mr. Kitchell against it. The decision was made to-day against the company.—
This deteats entirely that road unless they can get a charter from the Legislature.

Ohio and Mississippi Railroad.

It is stated that the Hon. H. C. Seymour, State Engineer and Surveyor, has entered into a contract for himself and associates, to build a railroad 330 miles long, from Cincinnati to St. Louis. The contract includes the survey, grading, bridging, superstructure, iron, depots, engines, cars, equipage, etc., and the price is \$9,000,000. The payment to be one-third cash, one-third stock, and one-third in the first revenue bonds of the corporations, which will be a lien on the whole line of road. The road to be completed and delivered in working order, within five years from the first of February next.

Immense as this work is, it has not been undertaken by so considerate and accomplished an engineer as Mr. Seymour, without a well grounded

conviction of its success.

The road connects two great cities, and passes through a rich and productive country already well populated. The commerce and intercourse bepopulated. The commerce and intercourse between Cincinnati and St. Louis is already immense, and is carried on by steamboats running on the Ohio and Mississippi rivers. The distance by that route is between 700 and 800 miles. The distance by the road is 330 miles. It is plain that the day the road shall be opened through, it will be rich farming country, near extensive ore-beds, and crowded to its capacity with freight and passenin the vicinity of a large lumber tract, costing less gers. The road will be a link in the chains of rail-

bushels. The earnings of the Northern railroad way leading from St. Louis east to the Atlantic profitable enterprise. It must be built.—Watertown will be \$30,000 for November and December.

Boston, and will in each case make a part of the solution. shortest route. - Albany Journal, Dec. 4

Hudson River Railroad.

We regret to state that the success of this road, since its opening, has not realised public expectation. The stock in consequence has depreciated rapidly. The public, we believe, have been equally disappointed in its management. The trains have not run at the speed, nor with the regularity promised, nor such as is demanded by the convenience of the public. Accidents have been of frequent occurrence; some of them of the most fearvery best ground, nearly level. But little grading ful character; and when we add to the danger from the ordinary accidents on railroads, the fact that the Hudson River road runs on the bank of the river for a great part of the distance, and the inevitable destruction of life that must occur should the cars be precipitated into the water, we cannot wonder that a good deal of distrust exists at the safety of this route. It will take a long time for the company to outgrow the dreadful accident which recently occurred on this road.

> The company have made an example of the two conductors of the trains that came in collision, by dismissing them from employment. The Albany Evening Journal, in noticing this fact, is by no means satisfied with the apology thus offered. It

"We must insist in our opinion that the directors (by the dismissal of the conductors) have not gone to the root of the matter. They have not yet told the public why the engine with which the accident originated, was allowed to run within one or two minutes of the passenger train. Was its position in accordance with the rules of the road? If so, then those who framed those rules deserve to be indicted; for the position of that engine was the primary cause of all the mischief.

As the directors are silent upon that point, the public will hold them to be the guilty parties until they shall relieve themselves (if they can) from the imputation. No men fit to assume the management of a railread, would permit an engine to keep the position of that which caused this calamity. We have before us the rules of other roads: and we find in those rules, one which positively prohibits any engine from running within fifteen min-utes of any train. If this rule had been acted upon on the Hudson river road, the accident in question

would not have occurred.

As the directors have dismissed three of its officers (two of them properly) for neglect of duly, the public will now expect a little light from the managing directors of the road in regard to their own conduct. Was the conductor of the engine which did the mischief, running in accordance with the rules of the road? If he was, no passenger's life is safe while that rule remains in force. If he was not, the public mind will be quieted by having the fact made known.

In a very few days its rival line, the Harlem, will be opened. As the difference in distance between the two is but slight, and as both will probably make the same connections, west and north, we we predict that the latter will have more than half of the travel and business between Albany and as he lives. The Delphi folks have subscribed New York.

New York.

Potsdam Railroad.—The survey of this road is completed, and Mr. Broadhead, the Chief, will proceed at once to make the estimates and profile. A report will be made in the course of six weeks. We learn that the route is a most remarkable one, being almost in an air line, and of easy grade; from this place to Antwerp there will not be at one place three feet cutting or three feet filling; the surface of the soil being a grade line. Passing through a

Ohlo.

Cleveland and Wellsville Railroad .- First Six Months' Business .- The business done on that portion of the Cleveland and Wellsville road between Ravenna and Cleveland—38 miles—for six months ending September 20th, 1851, is thus stated:

Amount received for passengers\$37,203 88 Amount for freight..... 2,058:83

Leaving a surplus of \$1,008 g8 For the length of the road in use, we think the above exhibit is without a parallel in the history of railroads. There being but a small portion of the road in operation, and that portion terminating in the interior of the country, nothing more than a home business has been transacted; yet the com-pany report net earnings of over 11 per cent!— Portage Whig.

Eaton and Piqua Railroad .- The line of this road has been placed under contract to Mr. De-

graffe, of Dayton.

Ohio.

Carroll County Railroad.—Hanover, on the Cleveland and Pittsburg railroad, is but 16 miles from Carrollton, the flourishing county seat of the roductive county of Carroll, and Rochester, on the line of railroad, is but 12 miles from Carrollton. A rail oad is in progress from Carrollton to connect with the Cleveland and Pittsburg road, and the Free Press says it is expected that this branch will be completed by the 1st of June next. The most of the grading is done, the whole will be early this winter, and the track can be laid early in the Spring. When completed, Carrollton will be within four hours travel of the Forest City.

Business of the C. C. and C. Railroad.—The business of the Cleveland, Columbus and Cincinnati railroad continues to exceed the expectations of its most sanguine friends. The receipts for the month of October were \$66,029,10. The receipts for three months to November 1st, were \$198,-341,55. - Cleveland Herald.

Wilmington and Zanesville Railroad .- Eighty miles of this road, from Lancaster to the Little Miami road, have been placed under contract.

Cleveland, Painesville and Ashtabula Railroad. This road was opened to Painesville on the 20th

Indiana.

New Castle and Richmond Railroad .- The Indianapolis State Sentinel of the 26th November states that the railway from Logansport to New Castle is to be built, injunction or no injunction. The first five miles from Logansport have been let to Chas. Taber, which will just about carry it through his farm; and that much will be accomplished, as sure \$40,000 towards a road from Logansport to Lafayette, near the line of the canal.

L

Cleveland and Wheeling Road.

We "esterday met the corps of engineers, under charge of Mr. Linten. engaged in the survey of the road from Wallsville to Wheeling. The distance from the mouth of Yellow Creek, to the west end of the Wheeling Bridge is 38 miles, the route is one of the best that could be selected anywhere. The cost of preparing the substructure upon the whole route will not be as great as that from Wellsville to Beaver. The stone work will be very light. The whole cost of the road will not be over about half a million, and as a connecting link it will be one of the most valuable in the country. It will be a noble outlet for the Steuben-ville and Indiana road until another eastern outlet may be made.—Wheeling Gazette.

Wabash and Eric Canal.

The magnitude of this great work, says the Indidiana Statesman, and the importance of the trust may be inferred from a brief statement of the receipts and expenditures for the year ending Oct. 1st, 1851 ;-

Receipts.

| From tolls and water rents | \$173,407 | 55 |
|----------------------------------|-----------|----|
| From sale of lands | 189,310 | 46 |
| From subscription of bondholders | 5,000 | |
| From miscellaneous sources | 2,663 | 42 |

Total receipts for the year\$365,881 43

| Expenaitures. | | |
|--|----------|----|
| For general expenses | \$16,268 | 58 |
| For ordinary repairs | 39,607 | 83 |
| For extraordinary repairs | 7,059 | |
| For rebuilding bridges | 3,555 | 18 |
| For expenses of superintendence | 6,648 | 27 |
| For expenses of collection | 6,076 | |
| For damages and water power | 14,712 | |
| For expenses of Land Office | 2,636 | 08 |
| For engineering, surveys, etc | 11,680 | 15 |
| For interest on bondholders' subscrip- | | |
| tions | 48,565 | |
| For construction of canal | 257.132 | 63 |

Total expenditures for the year....\$414,273 27

The balance of the funds in the hands of the Trustees, at the close of the year, to be applied to the further prosecution of the work, is \$146,398

The tolls have increased \$23,000 over the re. ceipts of 1850, and the increased receipts from the sale of canal lands, exceed \$75,000. The whole work will be completed in a year.

Georgia.

Railroad Connection at Macon.-It gives us much pleasure to announce that this long talked of connection has been so tar finished that twelve cars loaded with cotton passed from the Macon and Western to the Central road this morning. Cars are now loaded at the Central railroad depot, and will leave to-morrow for Rome direct. Cars can now pass from the Augusta and Waynesboro', the Milledgeville, and the Central roads to Ogletho pe and Rome, Georgia; and to Chattanooga and Charleston in Tennessee. We feel that we are now united to Cherokee, Georgia and Tennessee by iron bands .- Sav. Repub.

Compound Rail.

patented by Mr. Winslow. The Cleveland and Ashtabula railroad company have already ordered a quantity for their road. Continued experience only serves to show that the rail proves in practice what is claimed of it in theory.

New England Car Spring Co., No. 104 Broadway, New York,

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nyhat INDIA RUBBER CAR SPRINGS & HOSE,

Of F. M. Ray's improved form, and dealers in every description of Rubber Goods for Railway purposes. All Goods manufactured by this company are warranted of the best materials, and the same composition which has established the reputation of F. M. Ray's India-rubber Car Springs.

F. M. RAY, Agent.

Railroad Iron.

THE undersigned offer for sale 1000 tons Railroad Iron, (about 56 lbs. to the yard,) now at Brooklyn.

oklyn.
CHOUTEAU, MERLE & SANFORD,
et. 1. 1851.
51 New st. Oct. 1, 1851.

To Civil and Mining Engineers and Surveyors.

A YOUNG MAN having lately completed an engagement of six years with an eminent Civil and Mining Engineer in Scotland, is desirous of a situation in that capacity. Has had considerable experience in the mines of Scotland, and is in the mines of Scotland, and is in the mines of Scotland. possession of all instruments necessary for land and mining surveying. Address A. S., care Mr. D. H. Arnot, 50 Wall St., N. Y. Dec. 13th. 1m*

Notice to Contractors.

Virginia Cntral Railroad.

SEALED PROPOSALS will be received at the Engineer's Office of the Virginia Central railroad at Staunton, on the 18th day of December, Canal boat and Railroad connection with the Ohio river, and 1851, for the Grading, Masonry, etc., of that portriver and Lakes. tion of the line extending from Staunton to Panther's Gap, a distance of 35 miles. Drawings and specifications of the work may be seen from the 15th to the 18th of December, inclusive.

One of their Engines, the "Muskingum," on the Central Ohio Railroad, may be referred to, or others, at their works. The attention of those interested is invited, and orders solicited.

The best of references will be required. Contractors are requested to state what work they are engaged upon, and when it will be completed. The Directors reserve the right to accept or re-

the Directors leserve the light to accept of leject proposals as they may consider the interests of
the company require. The names, in full, of all
the parties must be given in the proposals.

By order of the President and Directors.

T. COLDEN RUGGLES, Chief Engineer.

Railroad Instruments.

HEODOLITES, TRANSIT COMPASSES & T LEVELS on a new principle, with Fraunhofers Munich Glasses, Surveyors' Compasses, Barometers, Chains, Drawing Instruments, etc., all of the best quality and workmanship, for sale at unusually low prices by

E. & G. W. BLUNT,

No. 179 Water st.

New York, Dec. 1, 1851.

M. B. Hewson, Civil Engineer, (Open to a New Engagement,) Memphis, Tenn.

LOWMOOR LOCOMOTIVE TIRES.

THE Subscriber, sole agent for the Lowmoor Co. is prepared to take orders for this superior description of tires, which are furnished, bent, welded and blocked to any dimensions, having but one weld, and at a cost to the importer of less than ten cents per pound for the heaviest weights.

WM. BAILEY LANG.

Boston, November 29th.

Railroad Iron.

We learn that orders are going out to England to a considerable amount for the compound rail, gland, and ready for immediate shipment, from thence. gland, and ready for minediate simplified, from thence.

Also, 2,500 tons of different patters in port and expected to arrive within sixty days. For sale by

DAVIS, BROOKS & Co.

28 Beaver Street, New York.

Contracts made for Railroad Iron at a specific price delivered in England, or at port in the United States.

PREMIUM

RAILROAD CAR SPRINGS,

AND OTHER

India-rubber Goods.

Two Prizes were awarded me last month by the American Institute—one for best Car Springs, the other for best Overshoes. This proves the superiority of the Goods made by me.

HOSE and STEAM PACKING, and all other India rubber goods for Railroad purposes, on hand and for sale cheaper than any other house.

Car Springs, 50 cents per lb. for cash—of the best quality and of all sizes, (Fuller's patent.)

I now give notice that Fuller is the original and true inventor of the India-rubber Spring, and companies who use Springs made by other parties will eventually have to pay me damages. H. H. DAY,

23 Courtlandt st., New York.

Inventor and owner of 17 I. R. Patents, and the oldest Manufacturer of India-rubber in the U. S.

December 6, 1851.

To Railroad Companies. H. & F. BLANDY, Proprietors LOCOMOTIVE ENGINE WORKS,

ZANESVILLE, OHIO.

RESPECTFULLY give notice to Railroad Com-panies that they are now prepared to furnish Engines of the most approved construction and finish, which, for capacity, speed and durability, are not excelled in-this country.

Also, all other Railroad machinery, of both wrought and cast iron, pertaining to the road, stations or machine shore,

chine shops.

Terms as favorable as any other builders in the

Oct. 30th, 1851.

To Contractors.

Office of the E. AND ILL. R. R. Co., Evansville, Oct. 23d, 1851.

SEALED PROPOSALS will be received at this office from the 13th to the 23d day of December next, for the grubbing, grading and bridging of that portion of the Evansville and Illinois railroad, lying between Princeton and Vincennes, a distance of 24 miles.

This work includes two bridges; one across White River, about 600 feet, the other across Pa-

toka, about 200 feet.

Contractors will state what proportion of the Stock of the Company will be taken in payment. Plans, profiles and specifications, will be exhibited, and all requisite information given at the Office of the company in Evansville, on and after the 13th day of December next. By order of the Board of Directors.

SAM'L. HALL, President.

RAILROAD SPRINGS Fuller's India-rubber Springs.

THESE are now made in our own Factory, of the best materials. Each spring is guaranteed to perform the required work. Purchasers guaranteed against adverse claims.

Car Builders will save great expense by calling at the office of the Company.
23 Courtlandt St., New York.

To Railroad Companies.

HE undersigned has discovered and patented an imperishable, cheap, and sufficiently elastic substance, to be introduced between the sill and rail, so that the stone sill can be used in place of the wooden sill: entirely overcoming that rigidity

where the rail is laid directly on stone. Address
J. B. GRAY, Philadelphia. July 10, 1851. 4m

Railroad Iron.

HE undersigned are prepared to enter into con-tracts now at specific prices, to deliver Railroad Iron during the coming Winter and Spring free on board at the shipping ports in Wales, or at ports in the United State

s in the United States.

CHOUTEAU, MERI.E & SANFORD,
ant. 20, 1851.

No. 51 New st.

To Contractors.

OFFICE WILMINGTON & MANCHESTER R. R. Co., Marion C. H., S. C., October 18, 1851.

SEALED PROPOSALS will be received until the 15th of December next, for the Piers c. a Bridge across the Great Pee Dee River. The on comprises four piers, one a very heavy pier for a draw, and the sinking of east iron hollow piles by "Dr. Pott's Pneumatic Process," for forming foundations. The plans and specifications of the piers will be exhibited by the Secretary of the Company at Marion Court House, and by the Resident Formany at Marion Court House, and by the Resident Engineer, L. J. Fleming, Esq., at Wilmington, North Carolina.

WALTER GWYNN,
Chief Engineer Wilm, and Man. R.R.

Bridges & Brother, DEALERS IN RAILROAD AND CAR FINDINGS,

64 Courtlandt street, New York.
Having established a general Depot for the sale
of articles used in the construction of Railroads, Locomotive Engines and Railroad Cars, we would ipvite your attention to our establishment. have already in store a good assortment of CAR FINDINGS and other articles used in the trade. and feel justified in saying, that should you desire anything in our line, we can supply on terms per-tectly satisfactory, and in the event of your desiring to order, you may feel assured that your terms will be as good as though you were here to make your own purchases

Among our goods may be found Railroad Car Wheels, Axles, Jaws and Boxes, Nuts and Wash-ers, Bolts, Brass Seat Hooks and Rivets, Window and Blind Springs, Lifters and Catchers, Door Locks, Knobs and Butts, Ventilators and Rings, Car Lamps, Coach and Wood Screws, Jack and Bed Screws and Babbitt's Metal; also Plushes, Damask, Enameled Head Linings, Cotton Duck for Top Covering in width sufficient without seams, Curled Hair and all other articles appertaining to

Also a new and valuable CAR DOOR LOCK well adapted to the Sliding Door. This is decid-

edly the best yet introduced.

LOCOMOTIVE ENGINE LANTERNS, the best article made in the country. Whistles, Gauge and Oil Cocks, Hemp Packing, American, Russian and Italian. We are also agents for Lightner's Patent Journal Box for Car Axles, that invaluable invention, for the economical use and preservation

of Car Journals.
Coach VARNISH and Japan of the best quality. We would also offer our services for the purchase we would also oner our services for the purchase as well as for the sale of goods on commission.— Both members of our firm have had the experience of many years in the manufacture of Railroad Cars, and our Senior was a member of the well known and our Senior was a member of the well known house of Davenport & Bridges, Car Manufacturers, Cambridgeport, Mass. With our knowledge of matters pertaining to Railroads, we feel quite confident in giving satisfaction to both buyer and seller, and hope that through assiduity and attention to any business entrusted to our care we shall merit a continuance of confidence and patronage.

BRIDGES & BROTHER.

July 22, 1851.

Lightner's Patent Axle Boxes.

THE-Undersigned are Agents for, and offer for sale, Lightner's Patent Axle Boxes, for Railroad Cars and Tenders. which have, by thorough experience, been demonstrated to be one of the most

experience, been demonstrated to be one of the most valuable improvements ever introduced in Locomotion. The saving effected in oil alone, will in a tew months pay the first cost of these boxes, independent of other advantages. They are now in use upon the followir g, among other roads, viz:

Boston and Worcester, Boston and Providence, Boston and Fitch burgh, Nashua and Lowell, Providence and Worcester, Northern, N.H., Cheshire, Manchester and Lawrence, Concord, N.H., Concord and Claremo it, Ogdensburg, (Northern, N.Y.)
Stonington, New London Willimantic and Palmer, New Jersey Central. New Hampshire Central. New Jersey Central, New Hampshire Central, Worcester and Nashua, Fitchburg and Worcester, Connecticut and Passumpsic, Lowell and Law-rence, Salem and Lowell, Wilton Branch, New-

Below will be found the certificates of a number of gentlemen, whose opinions will be good authori-

ty in every part of the country.

Office Boston and Prov. R. R., Bos. u, Dec. 28, 1849.

MR. JOHN LIGHTNER, Sir,—It affords me pleasure to say, that after two years' trial of your boxes, I am fully and entirely oil. satisfied of their superiority over any other pattern we have used. This superiority consists in economy of oil and freedom from "heating." I have not my of oil and freedom from "heating." I have not more than one sixth part the quantity consum-ried every pattern of box in use, of any note, and do not hesitate to say, that you have devised one which in every respect combines greater advantages than any other within my knowledge, these months 520 gallons of oil, being an average of 81 advantages are so manifest, hat I am fitting up all gallon per whee per annum.

our cars with your boxes, as fast as practicable.

Annexed, is a statement of an experiment with your boxes, the result of which may be of use to

vour interests.

Ten passenger cars, running 72 wheels, fitted up with Lightner's boxes used 41½ pints of Patent Oil, at 50 cts. per gallon, ran 43,099 miles, equal to 5·18 pints per wheel for 43,099 miles. Speed, 30 to 40 miles per hour.

Very respectfully yours, W. RAYMOND LEE, Supt.

I have examined the above statement of Mr. Lee and fully concur with him in his opinion of the su-

periority of Lightner's box.

GEORGE S. GRIGGS,
Supt. Machine Shop B. & P. R. R.

Boston, July 26, 1849. This is to certify that J. Lightner's axle boxes for railroad cars and locomotive tenders, have been in use on the Boston and Worcester railroad one year. and I unhesitatingly pronounce it, in my opinion, the best and most economical one in use, requiring less oil, of easy application, not susceptible of de-rangement, as in most kinds in use. When requir-ing repairs or renewal, the same may be done in one-fourth of the time usually occupied for that purpose. The box requires oiling not oftener than once a month—is kept quite free from dust, and consequently wears much longer than those gene-

D. N. PICKERING Supt. Motive Power, B. & W. R. R.

Office of Boston Locomotive Works, December 12th, 1849.

The Boston Locomotive Company have been us ing J. Lightner's patent axle boxes under the ten-ders of their engines for several months, and find them more highly spoken of by the railroad companies that have used them in regard to economy in the use of oil, their durability and their ease of adjustment, than any other boxes which they have used. We therefore do not hesitate to recommend

them to all railroad companies.

DANIEL F. CHILD, Treas. Boston Locomotive Works.

Taunton Locomotive Works, Taunton, July 7, 1849.

MR. H. F. ALEXANDER,

Dear Sir,—Your favor of yesterday came to hand in which you ask what success we have met with, in using Mr. Lightner's patent box for cars, en-

gines, &c.
We have put it in use on the Boston and Provi-We have put it in use on the Boston and Providence railroad, New Bedford and Taunton Branch railroad, Central railroad, N. J., Norfolk County, Rutland and Burlington, and as yet we have not had one complaint from them; and from what we have used of it, and witnessed, we do not hesitate to say that it is superior to anything in use for that purpose. It is simple in its construction, and easy of access, and the reservoir is held close to the shaft, and the oil and journal is perfectly secure from dust; they will run from four to six weeks without replenishing the oil. The brass in the box is changed very much easier than by any other plan

Very resp. yours, W. W. FAIRBANKS, Agent.

Office Providence & Worcester R. R. Co., Providence, Dec. 17th, 1850.

H. F. ALEXANDER, Esq., Sir,—The "Lightner patent boxes" for cars and locomotives have been in use under a portion of the passenger cars and engines of this company for up wards of two years, and have given very great sa tisfaction.

Though combining many excellent qualities, their great superiority consists in the economy of

The result of experiments upon this road shows the consumption of oil by the use of this box, to be

With the Lightner box the same cars running With the Lightner box the same cars running the same number of miles per day, during the same space of time consumed 73½ gallons of oil, being an average of 1½ gallon per wheel per annum.

So manifest are its advantages over any other box used by this company, it is intended to place it under all our cars as soon as practicable.

Besides the saving of oil, as they afford complete security from dust, we think them more durable than any other box in use.

Another advantage resulting from the use of this

Another advantage resulting from the use of this box is, cars run more easier than with the common box. The saving in fuel which it would effect, would of itself, we think be a sufficient inducement to use this box in preference to any other known

Very respectfully,
ISAAC H. SOUTHWICK, Supt.
JOHN B. WINSLOW,
Supt. Machine Shop, P. & W. R. R.

Cambridgeport, April 5th, 1851.

H. F. ALEXANDER, Esq.
Sir,—This may certify that I have been engaged in the manufacture of railway cars since 1834, and have built for the different railroad companies cars of all descriptions to the amount of three millions of dollars, and have used on the above cars all kinds of journal boxes, and find that none give better sa-tisfaction than the "Lightner patent box," both on account of the saving of oil and the arrangement for taking out and re-placing the composition by means of the sliding key, and other conveniences which of the sliding and no other box possesses.

Yours respectfully,

CHARLES DAVENPORT.

Worcester, March 17th, 1851.

H. F. ALEXANDER, Esq.

Dear Sir,—This is to certify that I have been for some years past engaged in building cars, and that I have tried most, if not all of the patent boxes, and have found Lightner's patent superior to all others as far as the saving of oil is concerned, also the

ease with which they are fitted and exchanged in case they get out of order.

For the last three years, I have put them under all of the cars I have built, and in every instance they have given the most entire satisfaction.

Yours truly, OSGOOD BRADLEY.

Office Union Works, So. Boston, May 23d, 1851.

This certifies that I have applied Mr. J. Lightner's patent axle boxes to my locomotiues and tenders for the past two years. I consider them superior to all others,—economical in their use, and possessing many important advantages not found in any other boxes. SETH WILMARTH.

Office 15, R. R. Exchange, Boston, June 1, 1851.

This is to certify, that we have known the success of Lightner's patent journal boxes upon various roads in New England the past three years, and have been led to examine their peculiar construc-tion.—We are well satisfied of their merits, and have adopted them upon our small gravel cars, and take pleasure, as we ever have done, in recom-mending their use upon all roads where we are employed in the construction.
GILMORE & CARPENTER,

Contractors.

Amoskeag Manufacturing Co. Machine Shop, Manchester, May 31, 1851. H. F. ALEXANDER, Esq.

Dear Sir,—We are using the Lightner box on all the engines and tenders we build, and we are sa-tisfied that it is the best box in use, and recommend the same to all those who purchase engines at our works.

Yours respectfully, O. W. BAYLEY, Agt.

This is to certify that the Fitchburg railroad company having become satisfied of the superiority of J. Lightner's patent Axle Boxes for Railway Cars and Locomotive Tenders adopted the same

One year's experience with the above improve-ment, has fully convinced me that there has never been anything offered to the public for that purpose which possess such intrinsic value; int act, this is an improvement which seems to overcome all the difficulties found in all the various kinds now in use. It possesses very many advantages over all others: Some of which are [first] the first cost is much less than that of most boxes in use. [Second-27, 1851.] had been less than that of most boxes in use. [Second-ly] 75 per cent is saved in oil; one gill applied to each Journal once a month, or one quart to an eight wheel car, is all these boxes require per month [Thirdly] no dust can gain access to the Journal, which is constantly lubricated with clean oil; hence which is constantly lubricated with clean oil; nence the saving in repairs of Journals and composition bearings, is a matter of importance. [Fourthly,] its construction is truly simple—not complicated, having nothing liable to become loose by constant and severe service. [Fifthly] for convenience there is nothing which approaches this improvement.—The composition bearings may be removed from the Journals of an eight wheel car, by one man, and returned or duplicates, in twenty minutes. and returned, or duplicates, in twenty minutes, while under the car: the same would require two men, at least half a day with other boxes in use.—
The trucks and wheels using these boxes, are free from oil and dirt, usually seen upon all railroad cars, at great expense to the corporation.

NATH'L JACKSON.

Supt. Car Building and Repairs, F.R.R. Co.

Boston, March 9, 1849. I hereby certify, that I have examined a box for Car Journals, invented by Mr. Lightner of Roxbury, Mass, and I have thought so well of it that I have adopted it on our railroad, I have known of its success on other roads.

S. M. FELTON.

Office of the Central R. R., N. J., Elizabethtown, May 1849.

H. F. ALEXANDER, Esq.,

H. F. ALEXANDER, Esq.,
Dear Sir:—Your favor, [wishing to be informed how we liked Lightner's patent axle boxes for R.R.
Journals,] has been duly received; in answer we would say, we have used the boxes on Locomotive tenders one year, more or less, and on our cars some six months. I consider them the best boxes in every respect, I have ever used, or even seen used on any other roads—for safety, durability and the economy pertaining to all the details connected with the boxes and Journals of R. R. Car wheels; and we shall adopt them upon this road. and we shall adopt them upon this road.

Yours Respectfully, JOHN O. STEARNS. Supt. Central Railroad Co., N. J.

> Manchester, N. H., Nov. 1st, 1850.

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H. F. Alexander, Sir,
I have used "Lightner's Boxes" under all the
Cars of the Manchester and Lawrence railroad, and feel no hesitation in saying that I think them to be the best boxes now in use.

Yours, &c.,

THEODORE ATKINSON, Agent.

Cheshire R. R. Office, Keene, March 5th, 1851.

March 5th, 1851. §
Mr. H. F. Alexander,
Sir,—Lightner's Patent Boxes have been used on
the Cheshire R. R. about a year, and have given
the highest degree of satisfaction.
All the Passenger Cars now in use, and a considerable number of Merchandize Cars are furnished with them, and they will take the place of the
Common Boxes on all the cars as fast as circumstances will nerwit. stances will permit.

Very Resp't. L. TÎLTON, Supt. Cheshire R. R.

Boston and Worcester Railroad, Boston, April 1st, 1851.

H. F. Alexander, Esq.,

Dear Sir,—Lightner's Patent oil saving box for railroad cars, has been adopted by this corporation; we are taking out the common and substituting the

and are bringing them into general use upon their Lightner's at the rate of fifty boxes per month; it will soon take the place of all others, as it is decidedly preferable to any heretofore used by this corment, has fully convinced me that there has never poration.

G. TWITCHELL, Supt.

Statement of amount of oil used on 32 8-wheel freight cars, on the Boston and Providence Rail-road (with Lightner's Boxes) from March 10, 1849, to February 27, 1851, and upon 12 8-wheeled pas-senger cars from September 8, 1849, to February

| 1 | 27, 1851. | | | | | |
|---|-----------|------|-------------|-----------|------|-----------|
| 1 | | | FREIGH' | T CARS. | | |
| ۱ | | | No. months. | | | No. month |
| ١ | 121 | pts. | 10 | 17231 | pts. | 14 |
| Ų | 219 | * 11 | 6 | 18231 | - 11 | 11 |
| ı | 325 | 8.6 | 13 | 19.—36 | 64 | 21 |
| ١ | 418 | 14 | 7 | 2022 | 6.6 | 10 |
| 1 | 522 | 66 | 12 | 21381 | 8.6 | 24 |
| | 6.—24 | 44 | 13 | 2229 | 86 | 23 |
| | 720 | 66 | 11 | 23351 | 6.6 | 23 |
| | 821 | 64 | 11 | 24371 | 2.2 | 23 |
| | 9231 | 66 | 10 | 2551 | 133 | 23 |
| | 1021 | 86 | 9 | 26311 | 6.6 | 24 |
| | 1120 | 4.6 | 9 | 27284 | 66 | 23 |
| , | 12211 | 44 | 11 | 2836 | ** | 23 |
| , | 1319 | 66 | 8 | 29504 | 46 | 24 |
|) | 14251 | 53 | 17 | 3050 | 64 | 23 |
| • | 15201 | 6.6 | 10 | 3141 | 4.6 | 23 |
| | 1631 | 66 | 18 | 32391 | 44 | 23 |
| | | | To | tal, 9251 | pts. | 510 |
| | | | PASSENG | | | |
| | 119 | nts. | 18 | 730 | pts | . 18 |
| | 225 | 44 | 18 | 8251 | * 46 | 18 |
| | 333 | 44 | 16 | 929 | 88 | 18 |
| - | 419 | 6.6 | 15 | 10461 | 8.0 | 17 |
|] | 515 | 88 | 15 | 11 9 | 44 | 9 |
| t | 0 00 | 6.6 | 18 | 12651 | 88 | 17 |
| L | 1 | | | | | _ |

Total, 340 pts. 197 Supt. F. R. R. Averaging 1 4-5 pints of oil for freight, and 1 7-10 for passenger cars per month only!

All orders and enquiries promptly attended to.
BRIDGES & BROTHER, No. 64 Courtlandt st., New York.

July 25, 1851.

Trautwine on R. R. Curves.

By John C. Trautwine, Civil Engineer, Philadelphia, Pa.

JUST published, accompanied by a Table of Nat-ural Sines and Tangents to single minutes, by means of which all the necessary calculations may be performed in the field.

This little volume is intended as a field-book for assistants; and will be found extremely useful, as it contains full instructions, (with wood cuts) for laying out, and adjusting curves; with Tables of Angles, Ordinates, etc., for Curves varying from 13 miles, down to 146 feet Radius.

A portable Table of Natural Sines and Tangents to minutes, has for a long time been a desideratum among Engineers, independently of its use in lay-

ing out curves.

The volume is neatly got up in duodecimo; an

Also, "Trautwine's Method of Calculating Excavation and Embankment."

By this method, which is entirely new, (being now made known for the first time) the cubic contents are accordingly with the second of the contents." tents are ascertained with great ease, and rapidity, by means of diagrams, and tables of level cuttings. Thin octavo; neatly half bound, \$1. For sale by Wm. Hamilton.

June 28, 1851.

Railroad Iron.

CONTRACTS made by the subscribers, agents for the manufacturers, for the delivery of Railway fron, at any port in the United States, at fixed prices and of quality tried and approved for many years, on he oldest railways in this country. RAYMOND & FULLERTON, 45 Cliff et.

CORROSIVE SUBLIMATE. THIS article now extensively used for the preserva-tion of timber, is manufactured and for sale by POWERS & WEIGHTMAN, manufacturing Chem-ists, Philadelphia. Jan. 20, 1849.

To Chief Engineers, Directors

of Railroads, Canals, etc.

A Civil Engineer and Surveyor, who has been professionally engaged under the British Government, East India Company, etc., is desirous of obtaining employment as an Assistant. No objection to the South or West. Address for one month to C. E. & S., American Railroad Journal office.

August 16, 1851.

To Engineers.

A NEW WORK on the Marine Boilers of the United States, prepared from authentic drawings, and illustrated by 70 engravings, among which are those of the tastest and best steamers in the country, has just been published by B. H. Bartol, Engineer, and is for sale at the store of D. APPLETON & CO.,

September 1, 1851.

Pneumatic process for making Foundations for Bridges, Piers, etc.

THE Attention of Engineers, Contractors, and Bridge Builders, etc., is directed to this method of forming secure foundations. Hollow Cylindrical piles from 8 inches to 10 feet in ciameter

may be sunk through sand, mud, clay, etc., to any required depth, and filled with concrete or masonry.

The efficacy and economy of the process has been demonstrated in the construction of numerous permanent works, at a much less cost than the use of any other method. (See evidence in Parliamenta-ry enquiry, Railroad Journal, April 19, 1851.)

Contracts made, or licenses granted for the use of the invention in any part of the United States, by CHARLES PONTEZ, 34 Liberty street, N. Y.

LOWMOOR IRON.

THE LOWMOOR IRON COMPANY hav-ing appointed Wm. BAILEY LANG their sole agent in America and Canada, he is now prepared to receive and execute all orders for Railway Bars, bent, welded, and blocked Railway Tires, Axles, Piston Rods, and Boiler Plates. Also, plain, angle, rivet and every other description of Low-

moor Iron.
All communications respecting the above are requested to be sent to Wm. Bailey Lang, at his Steel Warehouse, No. 9 Liberty Square, Boston, or to the Lowmoor Iron Works, Bradford, Yorkshire, England.

30th Sept., 1851.

RAILROAD SPRINGS. Fuller's Patent India-rubber Springs.

PRICE reduced to 50 cents per pound. The owners of this Patent now manufacture the Springs in their own Factory, and guarantee that each spring shall perform its required duty. Purchasers guaranteed against adverse claims.

They may have full confidence in the working qualities of the springs.

The suits brought against Ray & Co., will soon be brought to issue, and we await the result with satisfaction, having full confidence in the pure administration of the Laws.

The long advertisements put forth by Ray & Co. about prior invention of the spring are worthless he has not proved prior invention, and cannot sustain his patent in a Court of Law.

For the owners of Fuller's Patent G. M. KNEVITT 23 Courtlandt st., New York.

October 7, 1851.

Railroad Iron.

THE undersigned, Agents for British Manufac-turers, continue to sell Railroad Iron of the best quality, and of any weight or pattern required; deliverable at any part of the United States or Can

They have now on hand, ready for delivery New York:

2,000 tons of an approved pattern, weighing about 60 lbs. to the yard.

WM. F. WELD & CO., 42 Central Wharf, Boston.

Practical and Scientific Books Best Cast Steel Axles & Tires, To Railroad Companies, etc. (A NEW ARTICLE,) The undersigned has at last suc-

HENRY CAREY BAIRD,

SUCCESSOR TO E. L. CAREY, PHILADELPHIA.
For sale by Dewitt & Davenport, Tribune Buildings, New York, and Booksellers generally throughout the United States and Canada.

Now being published in Twelve Parts, price 25 cents each, the PRACTICAL MODEL CALCU-LATOR, for the Engineer, Machinist, Manufacturer of Engine work, Naval Architect, Miner and Millwright.—By Oliver Byrne, Compiler and Editor of the Dictionary of Machines, Mechanics, Engine Work and Engineery, and Author of yearing.

gine Work and Engineering, and Author of various
Mathematical and Mechanical works—illustrated
by numerous Engravings; forming, when completed, one large volume, octavo, of nearly 600 pages.
It will contain such calculations as are met with

and required in the Mechanical Arts, and establish models or standards to guide practical men. The tables that are introduced, many of which are new, will greatly economise labor, and render the every-day calculations of the practical man comprehensive and easy. From every single calculation given in this work other calculations are readily modeled, so that each may be considered the head of a numerous family of practical results.

The examples selected will be found appropriate and in all cases taken from the actual practice of the present time. Every rule has been tested by the unerring results of mathematical research, and

confirmed by experiment, when such was necessary.

The Practical Model Calculator, will be found to fill a vacancy in the library of the practical work-ing man long considered a requirement. It will be found to excer all other works of a similar nature, from the great extent of its range, the exemplary nature of its well selected examples, and from the easy, simple and systematic manner in which the model calculations are established. Parts 1, 2 and 3 now ready.

American Miller and Millwright's Assistant, By W. C. Hughes. 12mo., illustrated...\$1 00 Byrne's Practical Model Calculator. In 12 parts, each

Byrne's Treatise on the American Steam En-Cotton Spinner and Manufacturers' Companion. By Scott and Byrne. In one vol. 8vo., cloth, with large working drawings..... 3 50 Cabinet Maker and Upholsterer's Companion.

one vol. 12mo., cloth.... Encyclopedia of Useful Knowledge. 8vo., il-lustrated... Fisher's Photogenic Manipulation. 16mo.,

mo., sheep

Morfit's Perfomery: its Use and Manufac-In atner Dressing in General. In one vol.

tge 8vo., (in press).

Norris' Hand-book for Locomotive Engineers.
By Septimus Norris. 12mo., cloth.

Neill's Fruit, Flower and Kitchen Garden.

Illustrated by numerous plates, 12mo. cloth.

Overman on the Manufacture of Iron and Steel. Illustrated, 8vo., cloth, new edition. 5 Practical Metal Workers' Assistant. By C.

For Railroad Carriages and Locomotives.

THE quality of this Steel is sufficiently attested in the announcement that it has carried off the first prizes awarded at the World's competition of 1851, in London. The axles are in general use on the Continent, and are now offered in competition with any other that can be produced; and to be tested in any way that may be desired by the Engineers of the United States, either by impact or by torsion. This Steel is manufactured by Fried neers of the United States, either by Impact of Sytorsion. This Steel is manufactured by Fried Krupp, Esq., of Essen, in Renish Prussia, represented in the United States by

THOS. PROSSER & SON,
28 Platt st., New York.

November 1.

To Railroad and Canal Companies, Contractors, etc.

THE Undersigned wishes to direct the attention of Chief Engineers and Contractors to the facilities he possesses for supplying them with workmen, laborers, etc. of any description, and also to remind them that he forwards such men to whatever destination than the such men to whatever destination than the such men to whatever destination than the such men to whatever destination that the such men to whatever destination than the such men to whatever destination that the such men to whatever destination that we will be such as the such men to whatever destination that we will b

them that he forwards such men to whatever destination they may be required.

Companies or Contractors desirous of receiving
peaceable and industrous men, will be promptly supplied at the shortest possible notice.

C. B. RICHARDS,

No. 85 Greenwich Street, New York.

REFERENCES:—Chas. H. Webb, Esq., Supt. of the
St. George's and British Protective Society, New
York; Messrs. Harris and Leech, Philadelphia, Wm.
P. Malburn, Esq., Albany.

To Stone Masons.

THE NEW ALBANY AND SALEM RAIL A road Company have about 10,000 c. yards of Abutment Masonry to let at private contract, to be completed by the 1st of July, 1852.

To contractors who can produce testimonials of character for ability as STONE MASONS, fair, remunerating prices will be given.

Early applicants, by securing the work now of-fered, will gain advantages over competitors for the erection of an additional 15,000 yards, to be let out early next spring, in bridging the streams between Bedford and Michigan City, via Bloomington, Gosport, Crawfordsville and Lafayette, (the most productive and healthy region in Indiana,) by the knowledge they will have acquired of the re-

Application may be made in person, or by letter addressd to the undersigned, at New Albany, Indiana.

S. B. WILSON, Engineer.

Engineer's Office, New Albany,

Sept. 29th, 1851.

Engine Waste.
CLEAN WASTE for Locomotive and Steamboat Engines, in lots as wanted; also, superior
Steam Packing. Orders, with explicit directions
for forwarding, should be addressed to
J. MORTIMER HALL,
36 South st., New York.

November 1.

Notice to Contractors.

SEALED proposals will be received at the office of the company in Galesburg, on Wednesday, the 24th day of December next, for the grading, bridging and masonry of the Central Military Track road. The road will be nearly fifty miles in length, and embraces a variety of work well worth the attention of contractors.

Proposals will also be received at the same time and place, for the Cross Ties, to be delivered at

different points on the line.

Contractors will be expected to state in their bids the amount of the stock of the company they will be willing to take for work done; and preference will be given to those bidders who will take the greatest amount of stock.

Plans, profiles, specifications, etc. will be exhibited ten days previous to the day of letting, and all the necessary information with regard to the man-ner of its construction, etc., furnished by the engineer of the Board.

By order of the Board of Directors. WM. McMURTRY, President.

GEO. G. LANPHERE, Secretary.



The undersigned has at last succeeded in constructing and securing by letters patent, a Spring Pad-lock which is secure, and cannot be knocked open with a stick, like other spring locks, and therefore particularly useful for locking Cars, and Switches, etc.

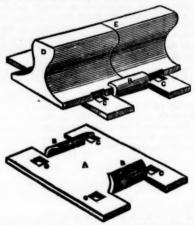
I also invite attention to an improved PATENT SPRING LOCK, for SLIDING Doors to Freight and Baggage Cars, now in use upon the Pennsylvania Central, Greensville and Columbia, S.C., Reading, Pa., and other Railroads.

Companies that are in want of a good Pad-lock, can have open samples sent them that they may examine and judge for themselves, by sending their address to C. LIEBRICH,

46 South 8th St. Philadelphia.

May 9, 1851.

The American Railroad Chair Manufacturing Co.



A RE prepared to make WROUGHT IRON RAIL ROAD CHAIRS, of various sizes, at short no-

By use of the Wrought Iron Chair, the necessity of the wedge is entirely done away—the lips of the chair being set, by means of a sledge or hammer, close and firmly to the flange of the rail.

The less thickness of metal necessary in the Wrought

close and firmly to the flange of the rail.

The less thickness of metal necessary in the Wrought Iron Chair gives much greater power and force to the spikes when driven—and consequently a much less liability to the spreading of the rails by reason of the spikes drawing or becoming bent.

The less weight necessary in the Wrought Iron Chair, will enable us to furnish them at a cost much below that of Cast Iron Chairs.

Description of the arove cuts.

Figure 1 is a perspective view of the rail secured in the chair, and fig. 2 is a perspective view of the chair itself. D, E, are sections of two rails placed together, and secured at the joint on the chair by the jaws B, B. The chair is bolted down by spikes C, C. In fig. 2, the chair is represented as made of a single block or plate A of wrought iron.

The chair is set in its proper place on the track, spiked down, and the ends of the two rails brought together within the jaws as represented in fig. 1.

For further information address,

N. C. TROWERIDGE, Secretary,

Poughkeepsie, N. Y.

June 1, 1851.

June 1, 1851.

Railroad Commission Agency.

Railroad Commission Agency.

The Subscriber offers his services to Railroad Co's and Car Makers for the purchase of equipment and furniture of roads and depots and all articles and materials required in the construction of cars, with cash or approved credit. No effort will be spared to select the best articles at the lowest market price.

He is sole Agent for the manufacture of the EN-AMELED CAR LININGS, now in universal use. The best Artists are employed in designing new styles, and he will make to order pieces with apprepriate designs for every part of the car, in all colors, or with silver grounds and bronzed or velvet figures.

He is also Agent for Page's Car Window Sash Fasteners, which is preferred by all who have used it to any other.

CHARLES STODDER,
76 Kilby st., Boston.

June 20, 1851.